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RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1854.

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(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1854.)

ROYAL OBSERVATORY, GREENWICH.

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ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1854.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1854, of Mr. Glaisher, the Superintendant, and Mr. Downs ; with two or three supernumerary assistants, to aid in the observations and reductions.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii ; and to corresponding parts of the preceding volumes.

During the year 1854, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two observations only have been taken ; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the Declination Magnet is observed, corresponding to the Astronomical Meridian, on January 14, 21, February 4, 24, March 4, 25, April 5, 6, 29, May 5, 12, June 24, July 21, 22, September 11, 15, 22, 29, November 1, 6, 25, December 5, 11 and 26.

Observations were made of the Collimation of the Declination Magnetometer ; of the Collimation of the Theodolite-Telescope ; and of the Torsion-force of the Suspension skein, on January 2 and 3.

Observations of the Angle of Torsion of the Horizontal Force Magnetometer, were made on January 5 and 6. The angle determined was 43°. 15′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on the same days, and the general conclusion was, that the scale-readings were nearly identical and had nearly the usual value when the reading of the torsion-circle was 143°. 30′ (marked end West); and 230°.11′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 143°. 30′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020417.

The correction for temperature is $0{\cdot}0000809 \times (t-32) + 0{\cdot}000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observation.

Observations of the times of vibration of the Vertical Force Magnetometer in a vertical plane have usually been made three or four times a week. The adopted time of vibration till February 4, was $22^s{\cdot}9$; from February 5 to April 5, $24^s{\cdot}5$; from April 6 to May 25, $26^s{\cdot}6$; from May 26 to June 28, $28^s{\cdot}5$; from June 29 to October 31, $18^s{\cdot}5$; and from November to the end of the year, $17^s{\cdot}3$. Observations for the time of vibration in a horizontal plane were made in 1853, on January 3 and 4, and the time was found to be $25^s{\cdot}0033$ from 10000 vibrations.

The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·000739 till February 4; 0·000646 from February 5 to April 5 ; 0·000548 from April 6 to May 25 ; 0·000477 from May 26 to June 28; 0·001132 from June 29 to October 31; and 0·001295 from November 1 to the end of the year : and these numbers have been used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 + (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus; in the determination of zeros, both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the five preceding volumes has still occasionally been felt. Apparently, without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities, but, at times, by a considerable quantity. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot notes, will very nearly reproduce the original curves.

At the times when the Vertical Force Trace is dislocated, two ordinates have been taken for the same abscissæ; these are connected by a brace, and the difference of the numbers indicates the amount of the disturbance.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′	h m		Jan. 1 h m		Jan. 1 h m	°	°
				0. 0	·01591	10. 40		42·5
				1. 4	·01675	21. 40		38·5
				3. 6	·01683			
				5. 28	·01565			
				7. 38:	·01448			
				10. 4	·01445			
				12. 0	·01395			
				13. 32	·01548			
				13. 58	·01565			
				14. 44	{·01644 ·01600			
				18. 13	·01596			
				19. 22	·01627			
				20. 41	·01605			
				23. 33	·01598			
				23. 59	·01575			
				Jan. 2		Jan. 2		
				1. 40	·01526*	1. 40		41·0
				3. 40	·01516*	3. 40		43·5
				9. 40	·00888*	9. 40		43·0
				21. 40	·00699*	2. 10		37·0
				Jan. 3		Jan. 3		
				1. 40	·01662*	1. 40		37·5
				3. 40	·01492*	3. 40		40·0
				10. 40	·00901*	10. 40		41·0
				21. 40	·00699*	21. 40		42·5
				Jan. 4		Jan. 4		
				0. 47	·00671	1. 40		43·0
				1. 38	·00700	3. 40		45·5
				3. 12	·00810	9. 40		46·5
				5. 16:	·00872	21. 40		44·5
				7. 35	·00807			
				8. 7	·00832			
				14. 17	·00932			
				17. 46	·01070			
				19. 55	·01170			
				21. 4	·01180			
				22. 12	·01215			
				23. 59	·01158			
				Jan. 5		Jan. 5		
				0. 13	·01150	1. 40		46·0
				1. 28	·01102	3. 40		49·0
				3. 0	·00972	9. 40		48·8
				4. 16	{·00808 ·00927	21. 40		44·0
				4. 50	·00940			
				5. 2	·00995			
				5. 32	·00975			
				8. 0	·00980			
				10. 39	·01030			
				13. 53	·01138			
				17. 2	·01205			
				18. 17	·01378			
				19. 8:	·01455			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′	h m		Jan. 5 h m		h m	°	°
				20. 50	·01502			
				21. 56	·01560			
				23. 59	·01570			
				Jan. 6		Jan. 6		
				0. 15	·01575	1. 40		46·0
				1. 8	·01584	3. 40		48·0
				3. 45:	·01392	9. 40		48·0
				5. 32	·01315	21. 40		44·0
				7. 42:	·01230			
				10. 18	·01283			
				13. 19	·01435			
				14. 19	·01463			
				17. 58	·01668			
				18. 53	·01738			
				21. 6	·01736			
				23. 43	·01643			
		Jan. 7				Jan. 7		
		0. 0	22. 7. 10	0. 15	·1043	0. 17	·01270	1. 40	45·8	47·0
		0. 58	7. 20	1. 0	·1042	1. 13:	·01235	3. 40	47·0	49·0
		2. 23	4. 25	1. 38	·1035	3. 48	{·00908 ·01075	9. 40	48·5	48·5
		4. 6	3. 25	2. 30:	·1036			23. 20	46·0	48·5
		5. 35	7. 30	2. 50	·1041	4. 19	·01053			
		6. 45	4. 0	3. 4	·1036	5. 18	·01072			
		8. 22	3. 25	5. 0	·1028	8. 16	·01000			
		8. 48	22. 4. 0		***	10. 10	·01018			
		9. 2	21. 57. 30	7. 10	·1038	10. 33	·00998			
		9. 13	55. 25	7. 30	·1034	13. 20	·01027			
		9. 37	21. 55. 0		***	14. 52	·01000			
		10. 17	22. 4. 15	9. 50	·1038	15. 33	·00923			
		10. 45	1. 30	10. 8	·1050	16. 2	·00995			
		11. 11	1. 45	11. 17	·1035	16. 43	·00990			
		11. 31	0. 20	12. 15	·1033	23. 57	·01137			
		12. 9	2. 35		***					
		13. 57	4. 35	14. 17	·1041					
		14. 24	2. 20	14. 44	·1037					
		14. 51	3. 15	15. 17:	·1035					
		15. 3	7. 30		***					
		15. 38	0. 35	15. 55	·1041					
		16. 5	22. 5. 0	16. 35	·1063					
		16. 54	21. 55. 35	17. 10	·1059					
		17. 44	22. 2. 40	17. 40	·1046					
		17. 56	1. 30		***					
			***	18. 45	·1049					
		19. 54	3. 20		***					
			***	19. 52	·1041					
		21. 14	10. 45	20. 14	·1027					
			***		***					
		22. 18	6. 20	21. 40	·1040					
			***		***					
		23. 38	10. 10	23. 14	·1031					
		23. 56	13. 50	23. 23	·1041					
				23. 55	·1013					
		Jan. 8		Jan. 8		Jan. 8		Jan. 8		
		0. 10	22. 14. 30	0. 35	·1006	0. 18	·01140	9. 40	47·5	49·0
			***		***	0. 31	·01112	21. 40	44·0	46·5
		0. 25	14. 0	1. 16	·1026	1. 21	·01124			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Till January 7, the adjustments of the Declination and Horizontal Force Magnetometers were under examination.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 8		Jan. 8		Jan. 8				
h m	° ′ ″	h m		h m		h m	°	°
0. 40	22. 10. 0	2. 38	·1030	2. 53	·01005			
	***		***		·01133			
1. 20	10. 0	3. 37	·1000	5. 52	·01100			
2. 38	9. 50	4. 10	·1018	7. 0	·01105			
3. 13	14. 15	5. 4	·1018	8. 30:	·01073			
3. 30	14. 20	5. 14	·1013	10. 37	·01140			
3. 52	7. 40	5. 26	·1020	11. 3	·01088			
4. 42	7. 30	5. 52	·0986	12. 8	·01100			
5. 2	22. 5. 15	6. 1	·0986	13. 19:	·01225			
5. 30	21. 58. 30		***	14. 37	·01278			
5. 38	59. 10	6. 45	·1029	18. 15	·01533			
6. 7	45. 0	7. 7	·1026	19. 51:	·01615			
6. 12	45. 45	7. 18	·1012	21. 36	·01635			
6. 28:	21. 42. 0	8. 0	·1031	21. 46	·01555			
7. 17	22. 1. 25		***	23. 59	·01515			
7. 27	1. 0	10. 15	·1030					
7. 38	3. 0	10. 53	·1099					
9. 44	22. 2. 30	11. 3	·1077					
10. 7	21. 59. 25	11. 17	·1085					
10. 19	59. 20	11. 45	·1049					
10. 42	50. 25	11. 50	·1050					
10. 58	59. 50	12. 17	·1020					
11. 6	21. 54. 30		***					
11. 38	22. 7. 30	14. 4	·1034					
11. 50	7. 10	14. 30	·1026					
12. 4	9. 30	14. 54	·1035					
12. 38	1. 25	16. 15	·1041					
13. 13	3. 0		***					
	***	18. 45	·1044					
13. 33	2. 15	21. 40	·1027					
	***		***					
14. 23	8. 25	23. 59	·1020					
14. 50	5. 30							
15. 8	8. 25							
16. 22	4. 0							
	***							
18. 43	3. 0							
	***							
21. 43	5. 15							
	***							
23. 59	5. 30							
	***							
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 15	22. 6. 0	0. 40	·1018	0. 7	·01507	1. 40	47 ·0	48 ·5
	***		***	1. 40	·01412	3. 40	49 ·5	51 ·0
1. 12	7. 30	2. 25	·1022	4. 36	·01085	9. 40	49 ·5	51 ·5
3. 55	3. 0		***		·01156	21. 40	44 ·0	48 ·0
6. 26	4. 30	4. 15:	·1010	7. 52:	·01028			
6. 59:	0. 35	6. 33	·1019	14. 13	·01183			
7. 33	4. 0	6. 40	·1014	18. 58	·01475			
8. 50	3. 20	7. 56	·1025	20. 53	·01543			
16. 3	4. 35	10. 38	·1033	22. 18	·01614			
20. 47	3. 30	14. 35	·1028	23. 59	·01628			
	***	17. 18	·1035					
23. 17	6. 35	20. 30	·1035					
23. 59	5. 25	21. 40	·1023					
		23. 59	·1018					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
h m	° ′ ″	h m		h m		h m		
0. 13	22. 7. 35	0. 10	·1020	0. 7	·01624	1. 40	46 ·7	48 ·8
0. 32	8. 30		***	1. 46	·01590	3. 40	48 ·0	50 ·5
3. 52	4. 20	2. 20	·1024	2. 46:	·01550	9. 40	50 ·5	51 ·5
9. 53	3. 30	5. 15	·1010	4. 3:	·01358	21. 40	44 ·0	47 ·5
12. 32	4. 50	7. 45	·1019	5. 16:	·01250			
16. 2	5. 0	16. 21	·1040	7. 17	·01045			
21. 5	2. 10	18. 30	·1041		·01100			
23. 59	5. 0	20. 15	·1044	9. 13:	·01054			
		23. 15	·1017	11. 37	·01100			
		23. 59	·1013	15. 8:	·01225			
				18. 50	·01478			
				20. 40	·01573			
				23. 0	·01783			
				23. 59	·01753			
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 50	22. 6. 30	1. 34	·1010	0. 55	·01738	1. 40	47 ·0	50 ·0
1. 22	9. 0	2. 0	·1018	3. 37:	·01577	3. 40	49 ·0	50 ·0
1. 52	6. 10	2. 45	·1018	6. 37:	·01330	9. 40	48 ·5	50 ·0
2. 28	7. 5	3. 10	·1010	8. 35:	·01298	21. 40	43 ·5	46 ·0
	***	4. 22	·1014	12. 31	·01418			
3. 17	5. 15	4. 40	·1006	13. 5	·01403			
4. 3	6. 30	6. 16	·1018	13. 53	·01428			
4. 17	4. 25	8. 10	·1014	19. 30	·01755			
4. 37	5. 45	9. 46	·1025	21. 12	·01815			
8. 25	2. 35	12. 15	·1027		·01777			
	***	12. 40	·1042	21. 48	·01798			
11. 27	3. 35	13. 15	·1026	22. 31	·01770			
11. 53	2. 20		***	23. 48	·01812			
12. 37	5. 10	15. 40	·1035					
13. 6	1. 5	16. 40	·1034					
13. 32	9. 30	17. 15:	·1046					
13. 53	4. 40	18. 3	·1042					
14. 42:	3. 0	18. 45	·1044					
15. 16	4. 15	19. 44	·1034					
15. 37	2. 0	20. 35	·1043					
16. 16	3. 30	21. 15	·1043					
16. 40	7. 45		***					
17. 36	1. 40	23. 40	·1016					
17. 58	1. 30							
18. 15	4. 5							
19. 4	5. 30							
19. 55	11. 40							
20. 23	9. 45							
20. 53	5. 0							
21. 16	5. 35							
21. 33	4. 10							
22. 3	6. 30							
23. 43	7. 0							
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	22. 8. 0	0. 0	·1020	0. 0	·01814	1. 40	45 ·5	47 ·5
0. 34	8. 50	0. 44	·1023	2. 42	·01865	3. 40	48 ·5	48 ·5
0. 47	11. 30	1. 23	·1012	3. 45	·01693	9. 40	47 ·5	48 ·5
	***	2. 5	·1013	4. 27	·01668	21. 40	44 ·5	48 ·0
2. 2	7. 55	2. 50	·1000	6. 38	·01443			
	***		***	9. 2	·01592			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 12		Jan. 12		Jan. 12		h m	°	°
h m	° ′ ″	h m		h m				
2. 38	22. 9. 30	4. 18	·1013	0. 20	·01445			
2. 54	8. 30	4. 37	·1006	10. 0	·01422			
3. 37	4. 30	5. 38	·1017	12. 45	·01370			
4. 5	5. 30	5. 52	·1008	13. 6	·01562			
4. 25	4. 22	6. 14	·1016		***			
4. 47	5. 25	6. 45	·1010	17. 3	{·01805			
5. 58	4. 40	7. 13	·1014		{·01772			
6. 6	3. 15	7. 45	·1010	19. 13:	·01811			
7. 3	22. 4. 0	8. 0	·1018	22. 13	·01730			
8. 0	21. 55. 30	8. 45	·1006	23. 10	·01683			
8. 15	22. 2. 30	9. 0	·0980	23. 50	·01675			
8. 47	21. 58. 0	9. 24	·1046					
9. 12	21. 24. 30	9. 47	·1020					
9. 46	22. 2. 30	10. 30	·1050					
9. 59	1. 25		***					
10. 38	4. 0	12. 0	·1027					
11. 3	2. 0		***					
11. 21	3. 25	12. 50	·1038					
12. 22	1. 10	13. 18	·1030					
12. 47	9. 30	13. 52:	·1042					
13. 17:	2. 30	14. 53:	·1028					
13. 39	5. 25	17. 5	·1034					
14. 3	22. 1. 10	18. 14	·1042					
14. 32	21. 59. 40	18. 30	·1037					
15. 35	22. 6. 0	19. 35	·1038					
15. 59	5. 0		***					
16. 33	8. 0	21. 38	·1016					
17. 53	3. 10	23. 45	·1027					
18. 20:	5. 30							
18. 37	2. 25							
18. 55	1. 50							
19. 15	4. 0							
20. 31	4. 0							
21. 28	7. 45							
21. 46	6. 35							
22. 30	8. 20							
23. 6	6. 30							
23. 40	8. 0							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	22. 8. 40	0. 0	·1026	0. 0	·01702	1. 40	46 ·7	49 ·0
	***	1. 0	·1020	2. 0	·01656	3. 40	46 ·0	51 ·3
1. 20	8. 30	1. 13	·1011	2. 58	·01524	9. 40	48 ·8	51 ·0
3. 26	4. 20	1. 37	·1009	3. 33	·01398	21. 40	45 ·5	48 ·0
3. 51	2. 0	2. 23	·1017	4. 40	·01222			
5. 18	2. 50	4. 0	·1023	5. 10	·01183			
5. 32	4. 30	4. 32	·1017	5. 58	·01098			
7. 38	4. 30	5. 35	·1013	7. 29:	·01032			
7. 56	2. 50	6. 0	·1027	11. 37:	·01160			
8. 15	22. 4. 0	7. 40	·1020	13. 13	·01248			
8. 35	21. 57. 30	8. 7	·1023	13. 43	·01250			
9. 5	22. 0. 30	8. 29	·1017	16. 35:	·01425			
9. 22	21. 56. 30	8. 45	·1027	20. 32	·01528			
9. 48	21. 59. 0	9. 10	·1023	23. 37	·01596			
10. 10	22. 3. 0	9. 37	·1031	23. 59	·01702			
	***	10. 15	·1022					
12. 30	3. 45	10. 53	·1029					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 13		Jan. 13		h m		h m	°	°
h m	° ′ ″	h m						
14. 17	22. 0. 30	12. 44	·1025					
14. 47	2. 15		***					
16. 7	2. 0	13. 30	·1040					
16. 35	5. 45	14. 0	·1029					
17. 25	3. 15	14. 45	·1033					
17. 42	0. 35	15. 38	·1031					
18. 7	4. 10	16. 53	·1037					
19. 33	3. 0	20. 30	·1036					
21. 18	5. 10	21. 31	·1021					
21. 33	7. 0	21. 50	·1027					
22. 14	7. 30	23. 59	·1018					
22. 43	10. 5							
23. 43	8. 45							
23. 56	10. 30							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 23	22. 8. 5	0. 46	·1023	0. 40	·01582	1. 40	48 ·0	51 ·0
1. 0	9. 0	1. 23	·1013	2. 12	·01528	3. 40	51 ·0	53 ·0
2. 15	4. 55	1. 50	·1011	4. 9	{·01152	9. 40	49 ·5	53 ·0
2. 26	5. 50	3. 16	·1018		{·01198	23. 10	45 ·0	47 ·2
3. 17	4. 30	4. 10	·1010	7. 18	·01148			
4. 10	5. 0	5. 30	·1009	11. 4	·01320			
5. 42	22. 2. 0	6. 0	·0987	17. 10	·01862			
6. 13	21. 40. 25	6. 36	·1015	17. 14	·01830			
6. 58	22. 8. 30	7. 0	·1007	20. 53	·01845			
	***		***	22. 0:	·01810			
7. 49	22. 4. 30	8. 17	·1013	23. 59	·01872			
8. 43	21. 58. 20	8. 35	·1007					
9. 22	22. 1. 35	9. 40	·1013					
9. 52	21. 56. 30	10. 5	·1025					
10. 6	58. 40	10. 15	·1018					
10. 25	58. 50	10. 53	·1015					
11. 5	21. 50. 0	11. 17	·1025					
11. 44:	22. 3. 0	11. 34	·1020					
12. 43	1. 45	11. 56	·1032					
13. 46	3. 35	12. 15	·1024					
14. 10	3. 0	12. 28	·1028					
14. 31	5. 45	13. 5	·1024					
15. 0	3. 30		***					
15. 52	6. 30	14. 38	·1033					
16. 57	1. 35	15. 23	·1029					
	***		***					
17. 37	1. 30	17. 0	·1043					
18. 31	4. 40	17. 50	·1034					
18. 42	3. 0		***					
	***	19. 22	·1038					
22. 4	4. 30		***					
	***	22. 20	·1029					
23. 5	7. 45	23. 15	·1035					
23. 20	7. 5							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 8	22. 6. 30	0. 0	·1028	0. 20	·01838	10. 45	44 ·5	48 ·0
	***	0. 36	·1035	2. 42:	·01895	21. 40	44 ·8	48 ·0
0. 52	6. 50	1. 32	·1037	4. 50	·01828			
0. 59	8. 45	1. 47	·1030	6. 0:	·01805			
1. 57	7. 35	2. 47	·1035	7. 50:	·01725			
2. 44	5. 15	4. 17	·1036	10. 42	·01675			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 15		Jan. 15		Jan. 15				
h m	° ′ ″	h m		h m		h m	°	°
4. 36	22. 4.55	4. 45	·1023	12. 58	·01694			
	***		***	15. 38	·01685			
5. 20	1. 20	5. 53	·1027	19. 13	·01735			
	***	6. 32	·1024	22. 4	·01745			
6. 20:	5. 0	7. 57	·1025	22. 23	·01700			
7. 0	3. 30	8. 5	·1021	23. 59	·01655			
7. 23	22. 5. 0	8. 35	·1028					
8. 17	21. 58. 45	8. 58	·1026					
8. 42	22. 0. 10	9. 50	·1033					
9. 7	21. 58. 30	10. 10	·1023					
9. 33	22. 0. 30	10. 45	·1042					
9. 47	21. 57. 0	11. 26	·1032					
9. 53	58. 30	13. 30	·1032					
10. 8	58. 30		***					
10. 23	52. 30	17. 30	·1044					
10. 45	51. 0	17. 50	·1040					
10. 56	21. 55. 0	18. 29	·1047					
11. 57	22. 4. 0	19. 35	·1047					
15. 41	6. 30	22. 30	·1020					
	***	23. 59	·1017					
19. 6	4. 5							
21. 28	6. 40							
22. 48	5. 30							
23. 39	7. 30							
23. 59	6. 35							
Jan. 16		Jan. 16		Jan. 16		Jan. 16		
0. 58	22. 8. 25	0. 5	·1017	0. 12	·01640	1. 40	48. 4	50. 5
1. 42	9. 0	1. 8	·1021	1. 30	·01543	3. 40	50. 5	52. 5
2. 0	6. 35	1. 35	·1025	2. 34	·01444	9. 40	51. 0	52. 6
2. 30	6. 10	2. 15	·1021	3. 6	·01345	21. 40	49. 5	52. 3
2. 38	8. 35	2. 53	·1030	4. 18	·01180			
3. 14	8. 20	3. 20	·1013	5. 31	·01077			
3. 22	11. 15		***		·01105			
	***	3. 45	·1014	7. 5	·01052			
4. 3	8. 40	4. 0	·1005	9. 4	·01035			
	***		***	9. 53	·01021			
4. 40:	4. 0	4. 2	·1008	12. 5	·01050			
5. 18	7. 0	4. 50	·1024	14. 14	·01020			
	***	5. 20	·1027	15. 1:	·00949			
8. 2	2. 25	5. 30	·1021	15. 32	·01095			
	***	6. 50	·1025	16. 36	·01024			
9. 0	3. 30	6. 55	·1040	18. 54:	·01135			
9. 18	22. 2. 15	7. 12	·1023	20. 30	·01162			
9. 36	21. 51. 35		***	21. 23	·01203			
10. 0	22. 2. 10	7. 53	·1025	23. 35	·01212			
	***	8. 20	·1017	23. 59	·01197			
10. 40	21. 53. 10	8. 35	·1020					
	***	9. 20	·1013					
11. 31	21. 58. 0	9. 36	·1041					
11. 47	22. 2. 30	9. 45	·1041					
11. 57	1. 35	10. 5	·1021					
12. 20	3. 30	10. 20	·1027					
12. 46	0. 10	10. 30	·1025					
13. 30	0. 30	10. 44	·1034					
13. 55	7. 30	11. 30	·1015					
14. 5	7. 40	11. 37	·1017					
14. 16	22. 12. 25	11. 50	·1013					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 16		Jan. 16						
h m	° ′ ″	h m		h m		h m	°	°
15. 20	21. 52. 30	12. 9	·1033					
16. 3	22. 1. 30	12. 25	·1019					
16. 39	21. 58. 0	13. 35	·1014					
17. 28	22. 2. 35	13. 53	·1033					
17. 53	3. 0	14. 7	·1026					
18. 15	1. 0	14. 27	·1042					
19. 23	3. 0	15. 18	·1012					
20. 0:	8. 30	15. 38	·1023					
	***	16. 14	·1010					
21. 13	4. 30	16. 55	·1022					
21. 30	6. 20	18. 10	·1026					
21. 48	5. 30	18. 33	·1037					
22. 8	7. 15	18. 53	·1032					
22. 32	4. 50	19. 14	·1037					
23. 18	7. 0		***					
23. 36	11. 35	20. 25	·1017					
23. 59	10. 30		***					
		21. 55	·1014					
		22. 13	·1019					
			***					
		23. 30	·1014					
		23. 59	·1003					
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 26	22. 9. 10	0. 9	·1000	0. 15	·01183	1. 40	51. 5	53. 0
	***	0. 45	·0994	1. 2	·01170	3. 40	54. 5	54. 8
1. 23	15. 30	1. 25	·1004	1. 43	·01120	9. 40	53. 8	54. 3
	***	1. 40	·0996	5. 53	·01137	21. 40	51. 3	53. 5
2. 40	6. 5	2. 0	·1007	7. 47	·01080			
	***	2. 23	·1004	9. 3	·01088			
3. 30	5. 0	3. 0	·1015	10. 8	·01072			
5. 34	5. 30		***	11. 9	·01083			
5. 53	7. 30	5. 38	·1012	12. 3	·01070			
8. 35	22. 5. 35	6. 15	·1019	12. 27	·01092			
8. 50	21. 51. 0	6. 40	·1014	12. 56	·01046			
9. 2	48. 0	7. 14	·1023	16. 28	·01138			
9. 10	48. 20		***	17. 51	·01158			
9. 17	46. 0	8. 4	·1021	19. 21	·01218			
9. 38	53. 0	8. 40	·1012	20. 45	·01250			
9. 43	52. 30	9. 21	·1039	22. 28	·01332			
10. 2	57. 30	9. 45	·1019	23. 59	·01374			
10. 23	59. 10	10. 1	·1023					
10. 37	58. 15		***					
10. 53	21. 58. 50	10. 50	·1004					
11. 17	22. 3. 15	11. 5	·1013					
11. 28	2. 50		***					
11. 39	4. 30	11. 35	·1015					
11. 56	22. 2. 15	12. 8	·1003					
12. 20	21. 51. 20	12. 30	·1045					
12. 30	55. 30	13. 29	·1013					
12. 54	56. 35	14. 13	·1018					
13. 7	55. 25	15. 53	·1013					
13. 26	58. 0	16. 23	·1024					
13. 47	21. 57. 15	16. 35	·1020					
14. 14	22. 1. 40	17. 45	·1032					
14. 42	0. 40	18. 15	·1027					
	***	19. 23	·1029					
16. 17	3. 0		***					
		23. 59	·1010					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 17								
h m	° ′ ″	h m		h m		h m	°	°
16. 26	22. 5. 35							
16. 47	2. 55							
17. 13	4. 0							
18. 2	2. 50							
18. 31	5. 10							
	***							
20. 22	4. 50							
	***							
21. 40	5. 45							
23. 43	5. 15							
23. 56	6. 30							
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 15	22. 6. 10	0. 15	·1006	0. 22	·01387	1. 40	53·5	55·5
0. 48	8. 30	0. 45	·1001	1. 40	·01340	3. 40	54·5	57·0
1. 27	6. 30	1. 10	·0999	4. 51	{·01134	9. 40	54·0	54·5
1. 44	6. 45	1. 30	·0994		{·01175	21. 40	47·5	51·8
2. 31	6. 0	3. 0:	·1013	5. 43	·01175			
3. 4	7. 40	3. 55	·1001	7. 38	·01088			
4. 23:	4. 25	4. 15	·1006	8. 24	·01086			
	***	4. 33	·1003	10. 34	·01135			
5. 12	4. 30	5. 25	·1006	12. 0:	·01190			
5. 25	2. 35	5. 40	·1016	16. 26	·01462			
5. 47	4. 40	6. 13	·1008	18. 25	·01623			
6. 13	3. 5		***	20. 18	·01820			
6. 47	22. 5. 35	7. 0	·1012	21. 30	{·01965			
7. 3	21. 54. 20	7. 13	·1048		{·01925			
7. 15	22. 1. 30	7. 24	·1042	23. 2:	·01897			
7. 21	1. 0	7. 35	·1025	23. 59	·01922			
7. 25	22. 3. 0	7. 46	·1035					
7. 38	21. 57. 10	8. 34	·1015					
7. 52	22. 2. 10		***					
8. 18	3. 50	10. 35	·1021					
8. 44	2. 30	10. 52	·1039					
9. 16	5. 30	11. 5	·1026					
10. 22	5. 0	11. 29	·1023					
10. 46	3. 0	13. 45	·1028					
10. 58	6. 30	16. 45	·1028					
11. 12	4. 50	17. 11	·1025					
15. 58	4. 0	19. 15:	·1036					
16. 43	5. 35	22. 30	·1023					
17. 0	9. 50	23. 20	·1024					
17. 37	6. 25	23. 59	·1014					
18. 45	4. 15							
23. 36	7. 25							
23. 59	8. 0							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 0	22. 8. 30	0. 5	·1013	0. 18	·01945	1. 40	49·0	53·0
0. 32	7. 45	0. 25	·1005	2. 36	·01914	3. 40	50·0	54·0
0. 54	9. 30	2. 5	·1021	3. 50	·01837	9. 40	49·0	52·5
1. 30	9. 20	2. 45	·1001	5. 9	·01785	21. 40	45·0	48·0
2. 31	6. 15	3. 30:	·1025	5. 46	·01812			
4. 2	5. 40	3. 45	·1020	7. 17	·01670			
4. 14	7. 50	4. 20:	·1025	9. 29	·01692			
4. 26	6. 25	5. 15	·0981	11. 25	·01814			
5. 2	22. 10. 35	5. 45	·1008	11. 43	·01848			
5. 23	21. 57. 35	6. 5	·1007	11. 55	·01824			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 19		Jan. 19		Jan. 19				
h m	° ′ ″	h m		h m		h m	°	°
5. 34	21. 57. 0	6. 25	·0995	13. 17	·01874			
5. 40	58. 30	6. 38	·1008	13. 32	{·01907			
5. 46	21. 58. 0	6. 46	·1003		{·01862			
6. 17	22. 10. 30		***		***			
6. 29	8. 0	7. 16	·1023	14. 38	·01892			
6. 43	12. 25	7. 50:	·1015	15. 36	·01823			
6. 53	9. 45	8. 40	·1030	16. 2	·01838			
7. 6	10. 50	9. 1	·1026	16. 58	{·01830			
7. 17	7. 35		***		{·01687			
7. 47	10. 30	10. 1	·1030	19. 13	·01715			
8. 29	5. 35	10. 16	·1025	20. 53	·01639			
	***	10. 38	·1028	22. 17	·01630			
10. 35	3. 35		***	23. 13	·01528			
10. 48	22. 1. 30	11. 25	·1020	23. 52	·01472			
	***	11. 45	·1056					
11. 35	21. 58. 25	12. 3	·1034					
11. 56	22. 9. 30	12. 24	1042					
12. 36	21. 58. 40		***					
12. 44	59. 30	13. 18	·1023					
13. 17	56. 0	13. 30	·1026					
13. 35	58. 25	14. 3	·1010					
13. 44	56. 20	14. 20	·1022					
13. 53	58. 0	15. 40	·1024					
14. 1	21. 57. 15		***					
14. 25	22. 1. 50	16. 20	·1044					
14. 48	17. 15	16. 53	·1034					
15. 43	0. 25	17. 0	·1038					
16. 8	3. 0	17. 10	·1035					
16. 21	22. 0. 0	17. 25	·1043					
16. 38	21. 58. 0	18. 0	·1034					
17. 2	22. 2. 0	18. 29	·1048					
17. 16	0. 0		***					
17. 34	1. 20	19. 53	·1041					
17. 51	0. 10	20. 24	·1044					
	***	20. 30	·1038					
18. 14	3. 20	20. 50	·1044					
18. 44	4. 35	20. 55	·1036					
	***	21. 3	·1042					
18. 53	2. 35	21. 53	·1016					
19. 44	6. 30	22. 45	·1006					
20. 9	5. 25	23. 0	·1015					
20. 26	7. 35		***					
20. 32	5. 30	23. 44	·1009					
20. 47	7. 30							
21. 18	5. 30							
21. 58	11. 0							
	***							
22. 32	13. 15							
	***							
23. 44	9. 40							
23. 53	11. 30							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 8	22. 9. 0	0. 30	·1022	0. 0	·01467	1. 40	47·8	51·0
0. 33	12. 0		***	0. 25	·01402	3. 40	50·0	55·0
0. 55:	8. 0	2. 0	·1018		***	9. 40	53·2	54·5
1. 10	10. 35	2. 30	·1023	3. 37	·01125	21. 40	48·0	50·0
1. 22	7. 0		***		***			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 20 h m	° ′ ″	Jan. 20 h m		Jan. 20 h m		h m	°	°
2. 0	22. 9. 0	3. 20	·0991	4. 30	·01170			
2. 16	8. 0		***	5. 58	·01158			
2. 35	10. 0	4. 13	·0998	6. 10	·01190			
2. 40	8. 30	4. 38	·1023	6. 27	·01138			
2. 51	11. 30	4. 50	·1012	6. 57	·01120			
3. 3	10. 35	5. 4	·1016		(†)			
3. 8	12. 25	5. 15	·1012	9. 53	·01070			
	***	5. 27	·1015	12. 0	·01050			
3. 35	22. 5. 30	5. 35	·1003	12. 42	·01007			
4. 14	21. 56. 15	6. 5	·1002	14. 13	·01005			
5. 0	22. 4. 10	6. 15	·1034	20. 37	·01350			
5. 22	5. 30	6. 25	·1027	22. 36	·01470			
5. 33	8. 40	6. 36	·1033	23. 37	·01438			
5. 47	22. 7. 0	6. 52	·1018	23. 59	·01432			
6. 7	21. 40. 0	7. 2	·1022					
6. 13	42. 0	7. 54	·0991					
6. 27	35. 15	8. 10	·1006					
6. 53	50. 30		***					
7. 23	58. 0	8. 46	·1009					
7. 45	57. 0	9. 2	·1004					
8. 4	50. 30	9. 31	·1022					
8. 18	21. 52. 20	10. 5	·1008					
	***	10. 16	·1014					
8. 53	22. 2. 40	10. 34	·1013					
9. 13	21. 58. 20	10. 54	·1025					
9. 34	22. 0. 35	11. 25	·1011					
	***	12. 8	·1026					
10. 43	0. 50		***					
10. 57	4. 0	12. 56	·1025					
11. 7	3. 25	13. 34	·1014					
11. 17	8. 35	14. 0	·1025					
12. 0	6. 30	15. 15	·1018					
12. 15	11. 30		***					
13. 8	2. 30	18. 1	·1028					
13. 25	7. 10	18. 45	·1038					
13. 32	8. 0	18. 55	·1033					
13. 53	5. 35	20. 5	·1033					
14. 0	6. 30	22. 20	·1006					
14. 32	2. 0	23. 19	·1012					
14. 48	3. 15	23. 59	·1004					
15. 7	1. 35							
15. 35	5. 0							
	***							
16. 32	3. 15							
17. 38	4. 30							
17. 58	7. 0							
18. 55	9. 0							
19. 15	6. 5							
21. 3	4. 30							
22. 4	6. 0							
22. 36	5. 30							
23. 45	8. 0							
23. 59	7. 30							
Ja. 21		Jan. 21		Jan. 21		Jan. 21		
0. 20	22. 6. 30	0. 20	·1004	0. 15	·01430	1. 40	51 ·8	53 ·5
1. 1	7. 0	0. 45	·1010	1. 23	·01430	3. 40	54 ·0	56 ·0
1. 21	8. 50	2. 30	·1010	2. 46	·01342	9. 40	53 ·0	55 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 21 h m	° ′ ″	Jan. 21 h m		Jan. 21 h m		Jan. 21 h m	°	°
1. 45	22. 6. 50	2. 45	·1015	3. 37	·01215	23. 29	45 ·0	48 ·5
2. 13	8. 0	3. 3	·1012	4. 13	{·01165 ·01205			
2. 34	6. 10	3. 22	·0990					
2. 49	7. 50	3. 45	·0992	7. 30	·01100			
	***		***	9. 12	·01100			
3. 10	6. 45	4. 30	·1003	11. 7	·01170			
3. 14	7. 40	4. 53	·0996	11. 26	·01193			
3. 50	0. 30		***	16. 8	·01442			
	***	5. 45	·1006	21. 13	·01948			
4. 21	2. 0	6. 13	·1001	21. 16	·01915			
5. 10	6. 0	6. 23	·1013	22. 48	·01863			
6. 2	5. 30	6. 30	·1004	23. 5	·01878			
6. 19	0. 50	7. 2	·1015					
6. 25	1. 30	7. 25	·1008					
6. 32	0. 30	7. 55	·1022					
6. 46	3. 15	8. 43	·1018					
7. 18	22. 3. 35	9. 5	·1023					
7. 40	21. 59. 30	9. 30	·1022					
8. 9	22. 4. 0	9. 39	·1027					
8. 34	3. 30	10. 16	·1019					
8. 58	0. 30	10. 27	·1024					
9. 18	3. 2	10. 44	·1017					
9. 33	1. 30	11. 0	·1033					
	***	11. 40	·1021					
10. 30	4. 30		***					
10. 44	3. 25	12. 58	·1014					
11. 10	8. 35	13. 11	·1024					
11. 45	1. 35	19. 30	·1034					
12. 25	0. 10	21. 23	·1038					
13. 26	3. 50	23. 59	·1029					
14. 32	4. 25							
14. 52	3. 0							
15. 18	4. 45							
16. 19	4. 45							
16. 32	4. 10							
17. 17	4. 50							
17. 38	3. 0							
18. 15	5. 0							
18. 44	4. 0							
20. 52	4. 10							
23. 35	7. 15							
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	22. 7. 0	0. 5	·1029	0. 25	·01895	11. 17	49 ·0	52 ·5
1. 41	7. 50	2. 4	·1031	2. 0	·01880	21. 40	47 ·0	50 ·0
4. 5	3. 30	2. 45	·1027	3. 17	·01883			
7. 43	4. 20	3. 26	·1037	5. 36	·01650			
11. 45	1. 35	5. 40	·1028	8. 23	·01405			
13. 5	3. 0	7. 20	·1031	12. 24	·01302			
14. 30	1. 30	7. 38	·1026	16. 56	·01415			
14. 46	3. 35	8. 20	·1030	21. 15	·01675			
15. 9	1. 0	11. 15	·1026	22. 13	·01712			
15. 24	2. 30	13. 11	·1027	23. 59	·01550			
15. 58	1. 30	14. 44	·1033					
16. 53	3. 0	16. 18	·1034					
	***	19. 15	·1040					
20. 15	3. 0	20. 3	·1034					
23. 59	5. 30	23. 59	·1034					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Jan. 20. The Vertical Force time-piece was stopped between 7^h and $9^h.\ 40^m$.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
h m	° ′ ″	h m		h m		h m	°	°
0. 24	22. 7. 0	0. 0	·1036	0. 25	·01895	1. 40	49 ·0	52 ·0
1. 48	8. 0	1. 53	·1027	2. 37:	·01773	3. 40	54 ·0	57 ·0
2. 30	6. 30	2. 50	·1027	6. 43	·01167	9. 40	52 ·5	53 ·0
3. 0	7. 30	4. 0	·1021	8. 6	·01090	21. 40	46 ·5	48 ·0
4. 8	7. 0	4. 15	·1014	10. 20	·01162			
4. 38:	8. 0	5. 0	·1010	14. 6	·01255			
5. 18:	6. 0	5. 38	·1021	20. 32	·01705			
6. 35:	9. 30	6. 0	·1016	21. 25	·01820			
7. 2	7. 10		***	22. 17	·01823			
7. 40	11. 25	7. 16	·1017	22. 23	·01852			
7. 56	9. 30	7. 46	·1004	22. 58	·01848			
8. 3	9. 50	7. 54	·1009	23. 52	·01830			
8. 16	7. 40	8. 8	·1004					
8. 48	7. 20	8. 23	·1013					
9. 3	2. 0		***					
9. 26	7. 50	8. 58	·1003					
9. 38	3. 0	9. 14	·1018					
9. 55	22. 1. 0	10. 0	·0995					
10. 8	21. 56. 0	10. 40	·1021					
10. 17	56. 30	11. 0	·1011					
10. 24	54. 45	11. 15	·1013					
10. 43	57. 30	12. 26	·1010					
11. 7	21. 56. 0	12. 35	·1020					
12. 6	22. 0. 20	12. 55	·1010					
12. 28	21. 58. 45	13. 19	·1013					
12. 37	22. 2. 0	13. 34	·1023					
12. 51	21. 58. 30	13. 58	·1012					
13. 25	57. 25	14. 33	·1021					
13. 48	58. 45	15. 0	·1015					
14. 7	55. 0	16. 32	·1021					
14. 32	21. 54. 45	17. 30	·1019					
16. 7	22. 1. 40	18. 12	·1025					
16. 53	21. 59. 30	19. 15	·1026					
17. 22	22. 2. 0	20. 16	·1035					
18. 30	2. 40	21. 5	·1027					
20. 2	5. 25	22. 0	·1027					
20. 45	3. 25	22. 45	·1018					
22. 43	5. 0	23. 45	·1014					
23. 53	5. 30							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 30	22. 8. 15	0. 0	·1015	0. 35	·01905	1. 40	48 ·0	49 ·0
1. 18	5. 30	0. 30	·1013	1. 31	·01845	3. 40	51 ·0	52 ·5
2. 6	9. 25	0. 37	·1016	1. 42	·01885	9. 40	51 ·5	53 ·5
5. 8	5. 25	1. 18	·1008	5. 8	·01612	21. 40	45 ·0	47 ·2
6. 16	6. 10	1. 34	·1014	5. 43:	·01580			
6. 32	4. 50	2. 28	·1014	7. 14	·01377			
6. 42	5. 30	3. 45	·1004	9. 3:	·01223			
7. 9	2. 15	4. 47	·1012	10. 55	·01140			
7. 20	2. 30	5. 5	·1008	13. 36	·01096			
7. 32	1. 5	6. 38	·1017	16. 13:	·01255			
7. 57	4. 20	7. 28	·1012	21. 3	{·01820			
	***	7. 46	·1020		{·01790			
10. 24	1. 10	8. 16	·1008	22. 34:	·01750			
10. 57	1. 30		***	23. 59	·01792			
11. 47	3. 15	8. 3	·1013					
12. 16	2. 35	9. 7	·1018					
12. 55	5. 30	9. 33	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 24		Jan. 24				Jan. 25		
h m	° ′ ″	h m		h m		h m	°	°
13. 53	22. 2. 30	9. 53	·1021			0. 16	1. 40	48 ·0	48 ·5
15. 30	3. 40	10. 16	·1016				3. 40	50 ·5	52 ·3
18. 17	3. 30	11. 54	·1020			0. 34	9. 40	50 ·3	51 ·3
19. 47	4. 20	13. 30	·1029				21. 40	49 ·0	51 ·0
20. 59	3. 30	15. 8	·1024						
23. 14	6. 20	20. 12	·1043						
23. 59	6. 0	21. 15	·1041						
		22. 30	·1028						
		23. 59	·1028						
Jan. 25		Jan. 25		Jan. 25					
0. 10	22. 6. 0	0. 0	·1028	0. 16	·01790				
5. 3	3. 30	0. 49	·1024	0. 34	{·01780				
10. 15	22. 2. 35	1. 40	·1028		{·01613				
	***	4. 0	·1018	3. 3	·01397				
12. 38	21. 58. 25	10. 45	·1025	4. 47	·01088				
13. 18	22. 2. 0	11. 5	·1031	5. 22	·01010				
14. 20	3. 0	11. 26	·1033	5. 58:	·01034				
15. 20	0. 20	11. 45	·1039	9. 17:	·00965				
15. 27	22. 1. 0	12. 2	·1035	13. 34:	·01034				
15. 55	21. 56. 10	12. 23	·1039	15. 36	{·00960				
16. 55	22. 1. 30	13. 15	·1026		{·00980				
17. 34	0. 0	13. 40	·1029	17. 17	·00974				
20. 38	2. 30	14. 5	·1025	18. 15	·00975				
21. 23	1. 40	14. 35	·1030	19. 8	·01005				
23. 17	5. 30	14. 55	·1026	20. 41	·00973				
23. 48	5. 35	15. 24	·1043	22. 0	·01020				
23. 59	4. 30	16. 0	·1025	23. 59	·01178				
		16. 45	·1023						
		17. 15	·1030						
		18. 45	·1030						
			***						
		20. 16	·1041						
		20. 58	·1031						
		23. 50	·1023						
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 24	22. 6. 0	0. 5	·1015	0. 7	·01184	1. 40	51 ·0	53 ·0
0. 42	6. 20	3. 8	·1015	1. 21:	·01182	3. 40	55 ·0	55 ·0
1. 56	6. 0		***	2. 30	{·01192	9. 40	54 ·0	55 ·5
4. 1	2. 5	4. 10	·1005		{·01121	21. 40	46 ·0	48 ·0
6. 30	1. 30		***	3. 53	·01188			
12. 12	2. 30	7. 50	·1018	4. 53	·01168			
12. 38	1. 30	10. 20	·1021	7. 18	·01133			
16. 22	4. 0	12. 45	·1026	10. 40	·01285			
16. 58	2. 40	14. 3	·1028	13. 24:	·01545			
17. 17	5. 25	19. 30	·1041	16. 17	·01932			
17. 45	2. 40	20. 30	·1040	16. 26	·01902			
21. 8	2. 15	23. 7	·1023	18. 50	·01870			
23. 59	4. 30	23. 59	·1024	21. 7	·01890			
				22. 8:	·01895			
				23. 23:	·01863			
				23. 59	·01850			
Jan. 27		Jan. 27		Jan. 27		Jan. 27		
0. 43	22. 5. 0	0. 5	·1025	0. 14	·01890	1. 40	49 ·5	50 ·7
2. 6	5. 45	1. 33	·1018	2. 11:	·01748	3. 40	50 ·2	52 ·7
4. 35	2. 45	2. 50	·1016	4. 3	·01545	9. 40	51 ·5	53 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the teleseope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 27	° ′ ″	Jan. 27		Jan. 27		Jan. 27	°	°
h m		h m		h m		h m		
9. 4	22. 2. 15	5. 0	·1022	5. 10	·01422	21. 40	50 ·0	53 ·0
	***	12. 30	·1027	6. 0	·01380			
15. 52	4. 30	20. 30	·1036	7. 12	·01295			
20. 11	1. 40	20. 50	·1031	9. 15	·01238			
23. 56	4. 35	23. 0	·1022	13. 53	·01190			
			***	18. 25	·01204			
		23. 59	·1020	21. 3:	·01248			
				21. 52	·01215			
				22. 43	·01225			
				23. 59	·01212			
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 33	22. 4. 30	0. 0	·1020	0. 16	·01165	1. 40	53 ·0	55 ·0
0. 46	6. 40	0. 25	·1021	1. 52	·01042	3. 40	55 ·0	56 ·5
1. 23	5. 0	0. 45	·1030	2. 1	·01055	9. 40	53 ·5	55 ·5
2. 24	6. 30	1. 40:	·1016	4. 22	·01116	21. 40	46 ·0	49 ·5
5. 55	4. 35		***	5. 22	·01098			
8. 47	5. 25	8. 43	·1028	6. 17	·01092			
9. 30	22. 3. 30	8. 53	·1019	8. 18	·01060			
9. 52	21. 57. 25	9. 8	·1023	9. 43	·01085			
10. 8	21. 57. 0		***	11. 8	·01185			
	***	10. 0	·1009	11. 34	·01239			
10. 36	22. 0. 0	10. 10	·1015	12. 30	·01273			
11. 1	21. 57. 30	10. 38	·1005	14. 29	·01586			
11. 13	54. 25	11. 7	·1010	16. 0	{·01863			
	***	11. 23	·0996		{·01822			
11. 40	58. 20	12. 9	·1019	20. 13	{·01850			
12. 12	45. 0	12. 35	·0999		{·01693			
12. 22	46. 35		***	20. 43	·01674			
12. 38	46. 30	13. 46	·1021	22. 37	·01420			
13. 7	56. 30	14. 50	·1015	23. 59	·01300			
13. 17	55. 20		***					
13. 46	21. 59. 30	19. 2	·1035					
14. 5	22. 0. 0	19. 4	·1028					
14. 20	21. 58. 15		***					
14. 36	21. 59. 0	19. 46	·1034					
14. 48	22. 4. 30	20. 5	·1042					
15. 8	7. 30	20. 33	·1037					
16. 13	2. 45	20. 55	·1042					
16. 35	5. 0		***					
16. 57	3. 0	21. 34	·1041					
	***	22. 8	·1026					
21. 9	2. 30		***					
	***	23. 30	·1045					
21. 23	3. 45	23. 59	·1040					
	***							
21. 58	2. 0							
	***							
22. 19	4. 0							
22. 40	3. 0							
23. 0	6. 0							
23. 17	4. 55							
23. 38	8. 30							
	***							
23. 59	8. 10							
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 2	22. 8. 10	0. 10	·1033	0. 16	·01278	6. 40	50 ·0	54 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 29	° ′ ″	Jan. 29		Jan. 29		Jan. 29	°	°
h m		h m		h m		h m		
0. 17	22. 6. 0	0. 40	·1037	0. 27	·01282	21. 40	53 ·5	56 ·5
	***	1. 45	·1031	2. 42	·01100			
0. 46	9. 30		***	2. 58	·01098			
2. 4	6. 30	2. 53	·1037	3. 26	·01046			
2. 44	6. 45		***	4. 18	·01097			
2. 57	10. 25	4. 20	·1017	4. 28	·01092			
	***	4. 33	·1003	4. 22	·01138			
4. 14	22. 11. 50		***	5. 53	·01110			
5. 0:	21. 59. 0	5. 15	·1033	8. 7	·01132			
5. 37	22. 10. 45		***	8. 28	·01160			
	***	6. 10	·1018	8. 46	·01132			
6. 37	5. 25	6. 45	·1022	9. 26	·01107			
6. 50	7. 0	7. 0	·1017	10. 0	·01128			
7. 14	2. 0	7. 20	·1023	12. 17	·01177			
7. 39	22. 6. 30		***	13. 13	·01110			
8. 2	21. 59. 0	7. 54	·1013	13. 30	·01070			
8. 20	40. 25	8. 10	·0993	14. 7	·01077			
8. 30	43. 0	8. 33	·1044	14. 33	·01060			
8. 45	40. 20	8. 45	·1041	15. 31	·01078			
	***	8. 53	·1048	19. 43	·01077			
9. 20	57. 0		***	21. 18	·01095			
9. 27	21. 55. 30	9. 30	·0996	21. 38	·01077			
9. 37	22. 1. 0	9. 36	·1005	23. 38	·01088			
9. 52	21. 54. 35	9. 46	·0993	23. 59	·01118			
10. 7	59. 35	10. 0	·1013					
10. 23	56. 30	10. 15	·1009					
10. 45	58. 40	10. 35	·1020					
11. 6	21. 56. 45	10. 56	·1013					
11. 44	22. 2. 30	11. 17	·1029					
12. 0	21. 58. 0	11. 36	·1026					
12. 7	58. 25	11. 50	·1013					
12. 38	21. 45. 40	11. 59	·1016					
13. 14	22. 3. 0	12. 17	·0998					
13. 42	21. 49. 30	12. 44	·1025					
14. 20	22. 3. 25	13. 5	·1005					
14. 47	21. 58. 30	13. 17	·1021					
15. 32	22. 6. 0	13. 29	·1018					
	***	13. 50	·1029					
15. 46	4. 25	14. 32	·1009					
	***	15. 0	·1014					
16. 2	5. 25	15. 16	·1010					
	***	15. 28	·1018					
16. 23	4. 0	15. 40	·1013					
	***		***					
16. 47	5. 30	17. 0	·1018					
	***		***					
17. 30	2. 50	17. 35	·1024					
	***	17. 53	·1021					
17. 52	5. 0	18. 24	·1027					
	***		***					
18. 23	3. 10	20. 0	·1024					
	***	21. 0	·1006					
19. 23	6. 35	21. 15	·1010					
	***	21. 36	·0994					
20. 4	4. 45	22. 30	·1001					
	***	23. 5:	·0991					
20. 25	6. 10		***					
	***	23. 59	·0997					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 29								
h m	° ′ ″	h m		h m		h m	°	°
20. 58	22. 3. 35							
	***							
21. 16	7. 10							
	***							
22. 0	6. 30							
	***							
22. 18	10. 0							
	***							
23. 25	8. 30							
	***							
23. 57	5. 30							
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
0. 8	22. 6. 0	0. 0	·0997	0. 17	·01123	1. 40	56 ·4	58 ·0
	***		***					
1. 23	8. 55			2. 26	·01182	3. 40	57 ·0	59 ·0
					***			
2. 3:	6. 0	1. 0	·1002			9. 40	57 ·5	58 ·0
2. 46	9. 0	1. 28	·0998	6. 50	·01168	21. 40	53 ·5	56 ·0
3. 17	6. 30	2. 37	·1011	7. 25	·01148			
4. 9	5. 15	3. 8	·1005	9. 18	·01188			
	***		***	10. 18	·01232			
5. 24	7. 15	3. 45	·1008	12. 10	·01337			
5. 45	4. 5	4. 7	·1004	12. 46	·01346			
5. 53	22. 4. 25	4. 50	·1009	13. 2	·01330			
6. 23	21. 41. 30	5. 39	·0994	14. 13	·01361			
7. 17	22. 0. 30	5. 55	·1004	15. 5	·01420			
7. 31	21. 57. 30	6. 8	·0984	18. 34	·01610			
	***	6. 30	·1026	20. 8	·01643			
8. 47	22. 5. 0	6. 45	·1023	21. 1	·01682			
9. 2	21. 55. 40	7. 25	·0988	21. 52	·01675			
9. 8	57. 50	7. 40	·0993	23. 58	·01752			
9. 30:	50. 0	8. 10	·0989					
9. 52	57. 0	8. 45	·1013					
10. 5	55. 10	8. 54	·0991					
10. 14	57. 30	9. 44	·1010					
10. 37	21. 55. 10	9. 55	·0999					
	***	10. 9	·1005					
11. 27:	22. 1. 40	10. 33	·0994					
11. 53:	21. 59. 0		***					
12. 27	22. 3. 35	11. 35	·1010					
12. 32	2. 15	12. 30	·1021					
13. 3	6. 25	12. 54	·1031					
13. 39	3. 10	13. 14	·1013					
13. 53	4. 0	13. 40:	·1023					
14. 23:	0. 30		***					
14. 50	3. 0	15. 6	·1010					
15. 39	4. 30	16. 28	·1019					
15. 51	1. 0		***					
	***	18. 14	·1014					
16. 30	5. 0	18. 53	·1019					
17. 17	5. 0	19. 33	·1016					
17. 29	3. 30		***					
17. 47	5. 0	22. 20	·1015					
	***	23. 59	·1002					
21. 52	3. 30							
22. 10	6. 30							
	***							
23. 43	5. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 30								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 8. 15							
	***							
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 8	22. 9. 0	0. 0	·1003	0. 13	·01746	1. 40	55 ·0	56 ·0
	***	0. 17	·1008	1. 34	·01750	3. 40	57 ·0	57 ·5
0. 37	6. 35	0. 57	·1013	2. 2	·01724	9. 40	57 ·0	57 ·7
1. 19	9. 30	1. 32	·1007	2. 14	·01730	21. 40	53 ·0	53 ·5
1. 34	8. 30	2. 3	·0991	3. 9	·01683			
1. 42	10. 0	3. 0:	·1013	6. 6	·01414			
2. 10	6. 35		***	6. 43	·01347			
2. 29	8. 0	5. 8	·1010	7. 9	·01330			
2. 41	7. 0	5. 30	·1001	7. 50	·01275			
	***	6. 18	·1016	8. 47	·01257			
5. 20	5. 30	6. 28	·1006	10. 25	·01260			
5. 47	0. 30		***	12. 37	·01234			
	***	7. 10	·1018	14. 12	·01392			
6. 23	22. 4. 35	7. 18	·1013	18. 50	·01695			
	***	7. 26	·1018	21. 0	·01807			
6. 52	21. 59. 30	7. 43	·1010	22. 28	·01845			
7. 12	22. 4. 0	8. 0	·1022	23. 59:	·01922			
	***	8. 33	·1012					
7. 35	22. 3. 50		***					
7. 55	21. 56. 10	11. 5	·1012					
8. 32	22. 3. 30	11. 25	·1025					
	***	11. 40	·1019					
8. 55	1. 50	11. 55	·1027					
9. 31	3. 0	12. 20	·1015					
9. 43	1. 45	13. 26	·1015					
10. 15	2. 35	13. 36	·1019					
10. 32	1. 45	13. 53	·1015					
10. 53	22. 2. 45	14. 0	·1019					
11. 38	21. 59. 30	14. 23	·1015					
11. 50	21. 55. 35		***					
12. 22	22. 0. 30	20. 30	·1029					
12. 55	2. 35	21. 1	·1018					
13. 34	1. 25	22. 5	·1023					
13. 47	5. 25	23. 59	·1010					
14. 0	5. 30							
14. 8	7. 45							
14. 44	6. 0							
15. 22	6. 15							
15. 46	4. 30							
16. 42	5. 15							
18. 13	3. 50							
	***							
20. 47	4. 10							
21. 58	2. 15							
	***							
23. 37	4. 35							
23. 58	6. 30							
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 15	22. 5. 35	0. 0	·1010	0. 26	·01935	1. 40	55 ·0	55 ·5
0. 49	7. 35	0. 40	·1016	1. 50:	·01860	3. 40	57 ·0	57 ·2
1. 50	8. 0	3. 0	·1003	3. 2	·01710	9. 40	55 ·4	57 ·0
3. 0	6. 20	3. 18	·0986	4. 55	·01565	21. 40	49 ·5	52 ·5
3. 46	3. 10	3. 40	·0999	5. 2	·01475			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 1	° ′ ″	Feb. 1		Feb. 1		h m	°	°
h m		h m		h m				
4. 20	22. 5. 55	4. 18	·1006	8. 9	·01273			
4. 52	4. 0	6. 10	·1007	8. 51	·01260			
5. 43	6. 50	7. 55	·1014		·01410			
	***	8. 17	·1028	10. 31	·01410			
7. 40	22. 4. 0	8. 45	·1026	13. 0	·01470			
8. 10	21. 59. 0	9. 14	·1013	16. 27:	·01683			
8. 27	22. 1. 45	9. 29	·1016	19. 52	·01200			
8. 38	21. 58. 50	10. 30	·1015	19. 55	·01963			
8. 55	22. 3. 0	11. 15:	·1025	21. 37:	·01963			
9. 22	2. 15	11. 50	·1016	22. 51	·01920			
10. 6	3. 10	12. 6	·1024		·01862			
10. 47	2. 5	13. 20	·1021	23. 59	·01900			
11. 7	3. 10	20. 10	·1031					
11. 43	22. 1. 0	22. 9	·1026					
11. 58	21. 58. 10	23. 15	·1018					
12. 32	21. 59. 15	23. 59	·1018					
12. 51	22. 2. 0							
15. 15	3. 15							
15. 41	6. 0							
16. 23	4. 20							
21. 57	3. 50							
	***							
23. 59	6. 30							
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 6	22. 6. 30	0. 15	·1019	1. 40	·01977*	1. 40	51 ·0	52 ·5
4. 2	6. 15	4. 5	·1016		(†)	3. 40	53 ·5	54 ·5
4. 39	2. 45	4. 27:	·1004	3. 40	·01792*	9. 40	53 ·0	54 ·5
	***	4. 50	·1018		(†)	21. 40	43 ·0	45 ·0
7. 55	22. 3. 50	5. 27	·1012	4. 32	·01652			
8. 20	21. 56. 35	6. 38	·1020	5. 38	·01505			
8. 52	22. 1. 0	7. 36	·1022	8. 25:	·01298			
9. 26	3. 10	8. 13	·1019	11. 26	·01472			
9. 58	2. 10	8. 31	·1034	13. 4	·01646			
12. 38	3. 10	8. 57	·1023	14. 43	·01872			
13. 13	2. 25	9. 28	·1021	17. 2	·01837			
13. 26	3. 0	14. 23	·1030	22. 58	·01778			
14. 0	2. 30	15. 0:	·1040					
14. 26:	5. 0	15. 53	·1027					
15. 15	0. 0	18. 45:	·1042					
16. 5	4. 45	22. 45	·1025					
20. 53	3. 15	23. 0	·1024					
22. 58	4. 50							
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
1. 46	22. 6. 0	2. 0	·1027	2. 23	·01727	1. 40	44 ·5	46 ·8
3. 10	4. 0	2. 53	·1025	3. 6:	·01674	3. 40	47 ·5	50 ·0
9. 31	22. 2. 45	5. 40	·1028	4. 40	·01365	9. 40	48 ·0	49 ·8
10. 6	21. 59. 30	6. 1	·1025	6. 46	·01055	21. 40	41 ·0	44 ·5
10. 17	22. 0. 30	9. 15	·1034	8. 43:	·00915			
10. 28	21. 58. 30	9. 52	·1031	11. 2	·00930			
11. 7	22. 1. 30	10. 9	·1038		***			
11. 30	21. 58. 20	10. 17	·1035	13. 40	·01105			
12. 8	22. 1. 25	10. 29	·1041	21. 8	·01730			
12. 23	21. 59. 0	11. 25	·1023	21. 15	·01713			
12. 46	41. 35	11. 44	·1029	23. 42	·01700			
13. 8	43. 0	12. 14	·1016		·01568			
13. 52	21. 56. 50	12. 34	·1032	23. 59	·01570			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 3	° ′ ″	Feb. 3		h m		h m	°	°
h m		h m						
14. 29	22. 1. 30	12. 40	·1024					
15. 1	2. 0	12. 57	·1050					
15. 10	0. 35	13. 43	·1020					
	***	14. 38	·1034					
16. 22	4. 30	15. 8	·1030					
16. 38	3. 25		***					
17. 10	3. 30	17. 4	·1041					
17. 38	1. 45	18. 15	·1037					
18. 36	9. 0	19. 13	·1052					
18. 51	6. 35	19. 35	·1051					
19. 23	7. 30	20. 10	·1060					
	***		***					
21. 27	2. 0	22. 10	·1045					
21. 43	3. 30		***					
21. 52	2. 40	23. 50	·1018					
	***							
22. 22	4. 25							
	***							
23. 14	5. 0							
23. 20	8. 0							
23. 40	5. 15							
	***							
23. 52	5. 30							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
0. 12	22. 6. 0	0. 40	·1020	0. 24	·01567	1. 47	45 ·3	47 ·0
0. 31	10. 25	1. 16	·1030	0. 46	·01531	3. 40	47 ·5	50 ·3
0. 47	6. 0	1. 55	·0995	1. 14	·01530	9. 40	49 ·5	52 ·3
1. 10	8. 30	2. 36	·0996	1. 57	·01464	22. 48	47 ·0	50 ·0
1. 19	12. 50	3. 23	·1012	2. 8	·01460			
	***	3. 45	·1008	2. 52	·01368			
1. 34	9. 30	4. 10	·1018	4. 38	·00965			
	***	4. 41	·1008	6. 26:	·00975			
2. 7	8. 25	4. 57	·1018	8. 3	·00928			
	***	5. 44	·1017	9. 18	·00945			
2. 38	4. 0	6. 18	·1010	13. 10	·01083			
	***	6. 28	·1014	15. 23	·01030			
4. 7	4. 30	6. 45	·1012	17. 24:	·01023			
5. 51	3. 30	7. 10	·1020	19. 17	·00940			
6. 19	5. 0	7. 53	·1014		***			
6. 33	3. 35	8. 3	·1021	20. 47	·00962			
6. 44	4. 0		***		***			
7. 6	0. 40	8. 40	·1016	21. 39	·00965			
7. 32	22. 2. 50	8. 54	·1021		***			
7. 58	21. 55. 30	9. 25	·1012	23. 59	·00975			
8. 11	59. 0	9. 35	·1016		***			
8. 29	56. 15	10. 0	·1014					
8. 38	57. 15	10. 35	·1021					
8. 47	55. 25	10. 55	·1037					
9. 8	59. 35	11. 15	·1033					
9. 27	21. 57. 30	11. 28	·1034					
10. 2	22. 0. 35	11. 34	·1028					
10. 23	22. 0. 30	11. 57	·1033					
11. 10	21. 56. 30	12. 50	·1028					
11. 27	58. 30	13. 33	·1044					
11. 44	21. 56. 0	14. 0	·1030					
12. 15	22. 1. 25	14. 8	·1037					
12. 36	0. 30		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 4		Feb. 4						
h m	° ′ ″	h m		h m		h m	°	°
12. 43	22. 1. 35	15. 25	·1022					
13. 8	21. 58. 40	16. 0	·1030					
13. 48	22. 3. 30	16. 26	·1021					
	***		***					
14. 24	21. 57. 40	17. 40	·1036					
14. 50	22. 6. 0	18. 7:	·1021					
15. 3	22. 2. 35	18. 45	·1049					
15. 33	21. 59. 30		***					
15. 54	22. 0. 10	19. 8	·1048					
16. 5	3. 0		***					
	***	19. 30	·1032					
16. 43	4. 25		***					
16. 53	1. 35	19. 50	·1040					
	***	19. 54	·1034					
17. 50	5. 30	20. 2	·1044					
17. 55	3. 0		***					
18. 29	17. 0	21. 0	·1033					
19. 13	4. 0	22. 0	·1014					
19. 25	9. 0	22. 14	·1019					
19. 39	5. 10	22. 21	·1010					
	***	22. 29	·1024					
19. 48	6. 35	22. 35	·1015					
	***	23. 5	·1022					
21. 8	4. 35		***					
	***	23. 39	·1020					
22. 2	1. 50		***					
22. 12	4. 30	23. 59	·1012					
22. 17	1. 0							
22. 22	5. 30							
22. 40	3. 30							
	***							
23. 59	8. 30							
	***							
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 10	22. 8. 10	0. 0	·1011	0. 10	·01098	9. 40	49 ·0	52 ·2
	***		***		***	21. 40	51 ·5	54 ·0
0. 32	10. 50	0. 28	·1002	0. 56	·01118			
	***	0. 43	·0968	1. 36	·01192			
0. 52	4. 30		***	1. 54	·01184			
	***	1. 20	·0981	2. 5	·01198			
1. 53	7. 30	1. 53	·1014	2. 27	·01172			
	***	2. 0	·1027	2. 46	·01184			
2. 6	11. 30	2. 23	·1007	3. 8	·01166			
	***	2. 28	·1013	4. 22:	·01210			
2. 43	22. 14. 30	2. 38	·1009	4. 47	·01160			
3. 15	21. 58. 15	3. 0	·0972	6. 8	·01175			
3. 56	22. 6. 0	3. 43	·1026	8. 53	·01073			
4. 42	4. 50		***		·01090			
5. 2	22. 4. 0	4. 3	·1021	9. 58	·01074			
5. 38	21. 49. 0	4. 20	·1027	10. 33	·01083			
	***	4. 50	·1014	11. 2	·01077			
6. 12	21. 49. 0	5. 5	·1013	13. 9:	·00907			
6. 47	21. 58. 30	5. 20	·1022	14. 24	·01072			
7. 35	22. 3. 30	5. 36	·0998	14. 57	·01084			
8. 7	22. 2. 30	6. 5	·1030	16. 5	·01065			
8. 26	21. 56. 45	6. 13	·1024	21. 10	·01120			
	***		***	21. 43	·01110			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 5		Feb. 5		Feb. 5				
h m	° ′ ″	h m		h m		h m	°	°
8. 53	21. 58. 0	6. 53	·1027	23. 59	·01125			
9. 10	54. 30	7. 35	·1016					
9. 20	55. 50		***					
9. 29	21. 54. 30	9. 22	·1033					
10. 7	22. 0. 0	9. 35	·1046					
10. 28	22. 1. 25	10. 10	·1024					
11. 0:	21. 58. 30	11. 55	·1021					
11. 47	22. 2. 25		***					
13. 55	22. 3. 45	13. 38	·1023					
14. 19	21. 55. 30	14. 15	·1040					
15. 2	22. 8. 0	14. 40	·1020					
15. 17	22. 7. 25	15. 10	·1030					
15. 58	21. 59. 25	15. 25	·1024					
16. 32	22. 7. 20	16. 2	·1030					
16. 47	4. 25	16. 25	·1021					
	***	17. 10	·1023					
17. 37	2. 40	17. 44	·1022					
	***	17. 54	·1027					
19. 47	3. 50	21. 53	·1022					
	***	22. 4	·1015					
21. 31	1. 30	23. 10	·0998					
21. 52	2. 45		***					
	***	23. 59	·1001					
22. 17	1. 35							
22. 22	3. 35							
	***							
23. 59	5. 30							
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 15	22. 6. 30	0. 8	·1003	0. 40	·01143	1. 40	54 ·5	55 ·8
2. 14	7. 0	2. 6	·1004	1. 36	·01235	3. 40	58 ·0	58 ·5
2. 28	9. 0	2. 31	·1007	3. 33	·01273	9. 40	58 ·4	59 ·0
	***	2. 58	·0994	4. 2	·01296	21. 40	55 ·0	56 ·0
3. 11	7. 45		***	4. 26	·01278			
	***	3. 42	·0994	6. 30	·01283			
3. 43	3. 10	3. 59	·1006	6. 46	·01268			
4. 8	4. 25	4. 35	·1002	8. 44:	·01268			
4. 30	2. 30	6. 0	·1003	9. 25	·01288			
	***	6. 30	·1010	9. 39	·01278			
5. 13	4. 30	6. 38	·0999	10. 53	·01308			
6. 15	1. 0	6. 53	·1013	15. 9:	·01465			
6. 31	22. 2. 25	8. 57	·1006	18. 33:	·01610			
6. 43	21. 55. 30	9. 20	·1029	20. 53	·01668			
7. 0	22. 0. 25	9. 40	·1010	21. 47	·01678			
7. 12	21. 58. 40	10. 11	·1013		(†)			
7. 55	22. 3. 10	11. 0	·1003					
8. 50	22. 2. 25	12. 40	·1012					
9. 13	21. 56. 0	20. 45	·1020					
9. 29	22. 0. 40	21. 45	·1016					
9. 46	21. 56. 30		(†)					
11. 18	22. 0. 0							
11. 38	2. 25							
13. 29	3. 45							
14. 52	2. 45							
15. 33	5. 25							
15. 55	3. 30							
16. 16	5. 10							
16. 35	3. 30							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 6		Feb. 7		Feb. 7		Feb. 7		
h m	° ′ ″	h m		h m		h m	°	°
17. 46	22. 2. 35							
18. 47	3. 25							
21. 15	1. 40							
21. 47	2. 0							
23. 59	5. 0							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 8	22. 7. 5	1. 45	·0999	0. 0	·01707	1. 40	56 ·5	57 ·0
	***	3. 7	·1000	0. 29	·01700	3. 40	58 ·5	60 ·0
1. 18	8. 30		***	2. 17:	·01663	9. 40	57 ·0	57 ·5
	***	3. 38	·1007	4. 14	·01465	21. 40	48 ·5	49 ·8
5. 58	3. 35	6. 17	·1010	4. 50	{·01446			
6. 17	1. 30	7. 19	·0992		{·01588			
6. 34	2. 45	8. 16	·1008	5. 48	·01565			
	***		***	8. 8	·01695			
7. 28	0. 0	10. 25	·1012	8. 58:	·01718			
8. 38:	2. 45	17. 0	·1030	11. 13	·01895			
9. 46	0. 35	19. 0	·1024	11. 52	·01970			
13. 37	3. 35	19. 23	·1031	12. 30	·02060			
13. 47	4. 35	20. 35	·1031	15. 10	·02000			
14. 8	3. 30	22. 5	·1021	20. 29	·01958			
14. 38	4. 0	23. 5	·1014	21. 5	·01978			
15. 8	2. 25	23. 55	·1015	22. 30	·01938			
	***			23. 59	·01943			
15. 49	3. 40							
16. 13	2. 30							
	***							
17. 8	2. 15							
	***							
18. 54	5. 0							
	***							
19. 29	4. 25							
20. 17	7. 35							
21. 8	3. 30							
22. 13	2. 25							
23. 37	5. 0							
23. 59	5. 0							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 17	22. 5. 30	0. 30	·1010	0. 43	·01960	1. 40	49 ·0	49 ·8
1. 33	7. 10	1. 15	·1002	3. 30:	·01890	3. 40	49 ·5	52 ·0
5. 4	22. 2. 35	1. 45	·1005	5. 48	·01670	9. 40	51 ·0	52 ·7
5. 28	21. 59. 40	2. 40	·1003	8. 28:	·01508	21. 40	48 ·0	50 ·0
5. 53	22. 0. 0		***	10. 10	·01500			
7. 46	2. 35	4. 20	·1013	11. 55	·01505			
9. 0	22. 1. 15	5. 34	·1013	19. 30	·01718			
9. 20	21. 58. 10	6. 30	·1023	21. 37	·01768			
9. 41	21. 58. 30	8. 30	·1025	22. 36	·01783			
9. 47	22. 1. 0	9. 20	·1015	23. 50	·01823			
10. 8	21. 59. 30		***					
10 28	22. 0. 45	10. 55	·1031					
10. 45	21. 58. 30	11. 20	·1026					
12. 12	22. 2. 15		***					
	***	15. 12	·1025					
17. 47	2. 35	20. 25	·1036					
22. 30	0. 45	21. 45	·1034					
23. 53	5. 35	23. 0	·1022					
		23. 59	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 7	22. 5. 30	0. 0	·1019	0. 0	·01823	1. 40	49 ·5	51 ·0
1. 43	7. 0	0. 23	·1016	1. 33:	·01783	3. 40	51 ·0	52 ·5
2. 10	5. 30		***	2. 20	·01745	10. 6	48 ·5	52 ·0
2. 32	6. 15	4. 39	·1010	3. 44:	·01695	21. 40	42 ·0	46 ·0
5. 9	3. 0	5. 20	·1020	5. 16	·01658			
6. 5	22. 3. 30	5. 55	·1010	6. 34	·01580			
6. 56	21. 59. 0	6. 45	·1012	8. 58:	·01590			
7. 8	59. 45	7. 5	·1021	10. 56	·01708			
7. 26	21. 56. 0	7. 21	·1017	12. 25	·01820			
7. 45	22. 0. 0		***	12. 50	·01813			
8. 9	22. 1. 0	7. 50	·1025	13. 12	·01850			
8. 15	21. 59. 0	8. 6	·1025	13. 23	·01850			
8. 39	22. 1. 30	8. 13	·1030	13. 46	{·01896			
8. 51	21. 59. 30	8. 48	·1030		{·01850			
9. 22	21. 59. 0	9. 30:	·1017		***			
9. 47	22. 0. 30	10. 39	·1033	15. 34:	·01820			
11. 8	21. 54. 10	10. 55	·1022	16. 51	·01860			
11. 27	57. 35	12. 14	·1016		***			
12. 25	59. 0	12. 24	·1024	18. 30	·01848			
12. 36	21. 56. 30	12. 49	·1003	20. 11:	·01862			
12. 47	22. 1. 30	13. 15	·1025	21. 48	·01797			
12. 58	21. 58. 25	13. 30	·1021	22. 54	·01785			
13. 34	56. 40	13. 50	·1030	23. 59	·01798			
14. 5	51. 35	14. 28	·1023					
14. 22	21. 55. 30	14. 45	·1015					
14. 37	22. 5. 35	15. 17	·1033					
14. 58	7. 10	15. 45	·1028					
15. 31	2. 50		***					
16. 4	1. 30	18. 9	·1034					
17. 1	4. 30		***					
17. 10	3. 0	18. 45	·1046					
17. 31	4. 50		***					
17. 38	3. 30	20. 15	·1047					
18. 2	6. 30	20. 45	·1050					
18. 12	5. 15	20. 50	·1043					
18. 17	7. 25	20. 55	·1051					
18. 32	3. 30	22. 25	·1010					
	***	23. 6	·1005					
20. 24	1. 30							
22. 6	4. 10							
22. 39	8. 30							
23. 0	14. 25							
23. 15	14. 40							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 2	22. 16. 10	1. 0	·1013	0. 20	·01795	1. 40	45 ·5	48 ·0
0. 40	10. 10	1. 40	·1020		***	3. 40	49 ·5	52 ·0
0. 56	10. 50	2. 14	·0998	1. 50:	·01730	9. 40	49 ·5	52 ·0
1. 13	8. 30		***		***	21. 40	44 ·0	47 ·0
	***	2. 40	·1008	3. 44	·01480			
1. 45	10. 0	2. 46	·1001	3. 49	·01448			
	***	3. 18	·1004	4. 52	·01320			
2. 17	7. 15	3. 40	·1016	5. 30:	·01192			
	***	3. 50	·0998	6. 23	·01107			
2. 36	11. 45	4. 16	·0987	6. 37	·01138			
2. 46	8. 0	4. 51	·1018		***			
3. 9	7. 30	5. 17	·0992	7. 58	·01087			
3. 35	13. 30	6. 6	·1016	8. 50	·01113			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Feb. 10		Feb. 10		Feb. 10		h m	°	°
h m	° ′ ″	h m		h m				
3. 43	22. 10. 30	6. 37	·0994	9. 15	·01073			
3. 58	22. 14. 30	6. 52	·1023	9. 31	·01098			
4. 31	21. 58. 30	7. 4	·1006	10. 29	·01085			
4. 55	22. 8. 15		***	11. 3	·01110			
5. 13	4. 30	7. 20	·1016	11. 45	·01085			
5. 58	22. 7. 30	7. 30	·1008	15. 23:	·01236			
6. 56	21. 52. 45	7. 52	·1022	21. 10	·01582			
7. 7	38. 0	8. 23	·1002	21. 44	·01568			
7. 14	54. 20	8. 53	·1032	23. 44	·01695			
7. 20	57. 0	9. 30	·0972					
7. 24	21. 56. 45	9. 38	·0982					
7. 32	22. 3. 30	9. 45	·0975					
7. 48	22. 3. 0	10. 21	·1000					
8. 10	21. 58. 30	10. 38	·0984					
8. 15	59. 30	11. 7	·0998					
8. 28	54. 30	11. 20	·1021					
8. 33	53. 0	11. 45	·1007					
8. 48	45. 0	12. 0	·1017					
9. 0	21. 56. 30	12. 33	·1007					
9. 12	22. 1. 30	19. 30	·1030					
9. 31	21. 53. 15	20. 50	·0910					
9. 38	57. 0	21. 29	·1010					
9. 47	43. 0		***					
9. 54	48. 30	22. 23	·0992					
10. 4	45. 0	23. 6	·0988					
10. 27	58. 0	23. 47	·0986					
10. 37	54. 25							
10. 56	58. 0							
11. 6	57. 30							
11. 14	59. 30							
11. 40	21. 52. 30							
12. 25	22. 0. 25							
13. 14	3. 20							
15. 31	4. 0							
19. 12	1. 30							
20. 0	3. 0							
21. 14	20. 0							
21. 47	10. 45							
22. 36	10. 20							
23. 14	13. 30							
23. 38	12. 30							
Feb 11.		Feb. 11		Feb. 11		Feb. 11		
0. 35	22. 16. 30	1. 0	·0980	0. 0	·01718	1. 40	45·3	48·0
0. 46	14. 40		***		***	3. 40	49·3	52·0
1. 13	15. 40	2. 48	·0992	1. 35	·01798	9. 40	48·3	51·0
1. 23	18. 0	2. 55	·0998	2. 37	·01740	23. 20	41·3	44·3
1. 53	14. 45	3. 0	·0987	3. 22	·01670			
2. 54	11. 30	3. 20	·1000	3. 57	·01555			
2. 58	8. 30	3. 54	·0983	4. 14	·01530			
3. 21	14. 0		***	5. 17	·01370			
3. 25	13. 10	4. 23	·0997	6. 7	·01343			
3. 34	15. 25	4. 47	·0988	7. 47	·01320			
3. 52	12. 50	4. 54	·0998	9. 32:	·01207			
4. 0	14. 25	5. 5	·0988	12. 17	·01288			
4. 8	12. 25	5. 19	·0995	12. 24	·01357			
4. 13	13. 15		***	12. 40	·01341			
4. 18	11. 30	6. 5	·0991		***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Feb. 11		Feb. 11		Feb. 11		h m	°	°
h m	° ′ ″	h m		h m				
4. 32	22. 11. 30	6. 14	·0996	15. 37:	·01515			
4. 37	12. 30	6. 30	·0977		***			
	***	6. 39	·0983	19. 29	{·01840			
5. 20	13. 15	6. 51	·0977		{·01804			
	***	7. 13	·0986	22. 13:	·01820			
5. 45	10. 0	7. 23	·0977	23. 16	·01808			
5. 52	8. 0	7. 50	·1003	23. 59	·01823			
5. 58	9. 0	8. 0	·1001					
6. 8	7. 30	9. 7	·1013					
6. 17	11. 30	9. 18	·1008					
6. 31	7. 0	11. 24	·1014					
6. 43	8. 0	12. 0	.1029					
7. 13	22. 4. 0	12. 16	·1021					
7. 28	21. 53. 0	12. 27	·1023					
7. 54	22. 1. 0	12. 45	·1026					
	***	12. 50	·1027					
8. 43	0. 50	13. 10	·1019					
9. 9	2. 45	13. 43	·1032					
9. 23	1. 15	13. 56	·1021					
10. 23	1. 30		***					
11. 10	0. 0	15. 35	·1023					
11. 43	22. 0. 30	15. 45	·1031					
11. 57	21. 58. 30	16. 0	·1022					
12. 15	22. 0. 0	16. 20	·1022					
12. 27	6. 30	17. 0:	·1015					
12. 50	2. 30	17. 44	.1027					
	***	20. 13	·1030					
14. 4	1. 0	21. 57	·1015					
14. 55:	4. 0	23. 20	·1018					
	***	23. 50	·1014					
15. 33	1. 35							
15. 42	22. 3. 30							
15. 50	21. 59. 30							
16. 32	22. 2. 45							
16. 40	2. 25							
16. 58	7. 45							
17. 13	8. 0							
17. 38	3. 45							
18. 27	2. 15							
20. 42	2. 0							
21. 31	2. 20							
22. 36	5. 40							
23. 7	6. 30							
23. 28	8. 25							
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
0. 7	22. 9. 45	0. 0	·1014	0. 15	·01852	9. 52	45·0	48·0
	***	0. 28	·1003	1. 12	·01865	21. 40	40·3	44·3
0. 33	8. 30	0. 43	·1014	1. 56	·01864			
	***	0. 54	·1006	4. 23:	·01840			
0. 48	10. 15	1. 20	·1018	6. 43	·01795			
	***		***	9. 14:	·01425			
1. 3	8. 15	2. 44	·1013	11. 21	·01408			
1. 30	12. 10	2. 55	·1018	12. 21	·01440			
	***		***	12. 40	·01420			
2. 58	12. 0	4. 2	·1016	15. 2:	·01540			
3. 30	8. 0	4. 15	·1002	18. 36	{·01825			
3. 38	8. 40	4. 39	·1025		{·01803			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 12		Feb. 12		Feb. 12				
h m	° ′ ″	h m		h m		h m	°	°
3. 47	22. 7. 45	5. 0	·1032	20. 27	·01798			
4. 8	22. 9. 30	5. 23:	·1016	21. 52:	·01852			
4. 33	21. 58. 0	5. 50	·1026	22. 55	·01838			
4. 49	21. 58. 20	6. 8	·1020	23. 59	·01830			
5. 2	22. 2. 10	7. 1	·1021					
5. 22	0. 0	7. 12	·1023					
	***	7. 55	·1018					
7. 27	3. 0		***					
8. 17	0. 40	9. 25	·1026					
9. 14	22. 1. 0	9. 55	·1014					
9. 51	21. 48. 30	10. 17	·1022					
10. 50	52. 30	11. 30	·1016					
11. 16	57. 10	12. 5	·1019					
11. 36	21. 56. 50	12. 30	·1041					
12. 17	22. 2. 30	13. 0	·1028					
12. 31	5. 35	14. 25	·1025					
13. 7	1. 0	16. 43	·1028					
14. 45	4. 10	17. 8	·1034					
15. 40	2. 35	20. 7	·1042					
17. 8	4. 35	22. 0	·1021					
20. 33	0. 35	23. 30	·1017					
21. 32	1. 35	23. 59	·1013					
22. 53	2. 30							
23. 56	5. 30							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 13	22. 6. 0	0. 15	·1016	0. 20	·01804	1. 40	44 ·5	47 ·0
1. 3	7. 0	2. 48	·1004	2. 15:	·01702	3. 40	48 ·0	50 ·5
1. 32	5. 50		***	4. 3	·01435	9. 40	48 ·0	48 ·5
2. 15	7. 0	5. 8	·1010	6. 2:	·01135	21. 40	37 ·5	41 ·0
	***	6. 14	·1017	7. 58	·01085			
3. 29	4. 25	6. 52	·1003		·01173			
4. 1	6. 10	7. 10	·1013	8. 42	·01185			
	***	7. 35	·1007	12. 15	·01400			
5. 54	3. 30	7. 56	·1008	14. 9	·01550			
6. 53	22. 4. 50	8. 17	·1015	14. 35	·01552			
7. 15	21. 58. 45	8. 59	·1007	16. 24	·01767			
7. 47	22. 1. 50	9. 56	·1014		·01785			
9. 0	1. 30	10. 14	·1004	18. 31	·01752			
9. 34	22. 0. 0	10. 26	·1013	21. 40	·01768			
9. 50:	21. 57. 10	10. 44	·0997	22. 42	·01742			
10. 5	22. 0. 0	11. 15	·1020	23. 59	·01760			
10. 18	21. 57. 20	11. 30	·1017					
10. 36	22. 3. 15	11. 53	·1027					
11. 4	21. 54. 30	12. 8	·1024					
11. 19	57. 45	13. 60	·1022					
11. 43	56. 0	14. 12	·1049					
11. 55	58. 20	14. 59	·1023					
12. 9	21. 57. 40	17. 27	·1032					
12. 52	22. 2. 35	17. 46	·1048					
	***	18. 30:	·1040					
13. 38	0. 25	19. 44	·1050					
14. 8	4. 30	19. 55	·1040					
14. 33	0. 30		***					
14. 46	1. 45	20. 50	·1053					
15. 3	0. 10	21. 1	·1046					
15. 25	22. 1. 0	21. 8	·1051					
16. 13	21. 59. 35	21. 39	·1033					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 13		Feb. 13						
h m	° ′ ″	h m		h m		h m	°	°
17. 12	22. 1. 15	22. 0	·1028					
17. 17	3. 0	22. 8	·1034					
17. 31	0. 45	22. 40	·1027					
17. 39	2. 45	23. 27	·1036					
18. 40	0. 20	23. 50	·1032					
19. 7	1. 50							
19. 28	22. 0. 30							
21. 35	21. 59. 35							
21. 52	22. 0. 0							
22. 12	5. 0							
22. 27	1. 25							
22. 47	1. 0							
23. 46	3. 45							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 8	22. 6. 0	0. 0	·1031	0. 48	·01735	1. 40	41 ·0	43 ·5
0. 57	5. 35	0. 29	·1037		***	3. 40	46 ·0	47 ·5
	***	0. 45	·1028	2. 32:	·01627	9. 40	47 ·0	48 ·0
1. 35	7. 0	1. 25	·1034		***	21. 40	45 ·0	46 ·8
1. 43	10. 0	1. 40	·1023	5. 29	·01084			
1. 49	7. 40	1. 45	·1034		***			
2. 15	11. 10	1. 53	·1024	7. 12	·01160			
2. 26	9. 0		***		***			
	***	2. 16	·1031	8. 31	·01065			
3. 2	13. 0	2. 29	·1020		***			
3. 12	11. 10	2. 45	·1025	9. 55	·01073			
3. 18	14. 10		***	10. 40	·01023			
3. 30	12. 40	3. 14	·1012	11. 37	·01030			
3. 33	14. 20	3. 16	·1017		***			
3. 58	10. 40		***	12. 37	·01025			
4. 2	13. 0	3. 40	·0999	13. 11	·00985			
	***	3. 59	·1005	13. 22	·01000			
4. 23	11. 40	4. 4	·1020	14. 23	·00990			
4. 37	14. 15	4. 10	·1013	14. 43	·01035			
4. 43	10. 20	4. 15	·1017	16. 2	·01075			
	***	4. 25	·1014	17. 26	·01123			
5. 15	13. 0	4. 36	·1023	17. 54	·01125			
	***	4. 50	·1013	19. 17	·01163			
6. 7	12. 35	4. 56	·1020	20. 10	·01150			
	***	5. 13	·1006	21. 0:	·01130			
6. 58	22. 4. 0	5. 15	·1010	22. 23:	·01106			
7. 25	21. 54. 0	5. 33	·1004	23. 0	·01130			
7. 38	54. 0	5. 45	·1013	23. 31	·01103			
8. 0	48. 25	5. 55	·1006					
8. 13	50. 30	6. 5	·1014					
8. 26	47. 25	6. 25	·1002					
8. 46	52. 30	6. 40	·1017					
8. 56	51. 35	7. 15	·1010					
9. 10	57. 30	7. 25	·0999					
9. 20	56. 35	7. 44	·1015					
9. 32	58. 50	8. 0	·1003					
10. 3	48. 45	8. 15	·1013					
10. 14	50. 0	8. 25	·1004					
10. 36	41. 20	8. 33	·1009					
10. 47	45. 10	8. 40	·1008					
10. 53	45. 0	8. 45	·1016					
11. 12	50. 25	8. 50	·1007					
11. 22	50. 0	9. 20	·0992					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Feb. 14		Feb. 14						
h m	° ′ ″	h m		h m		h m	°	°
11. 50	21. 55. 20	9. 33	·0992					
12. 12	54. 45	10. 6	·0999					
12. 21	50. 30	10. 47	·0999					
12. 40	52. 30		***					
12. 55	48. 10	11. 8	·1001					
13. 6	52. 30	11. 22	·0996					
13. 14	50. 0	11. 40	·1008					
13. 28	50. 0		***					
13. 37	47. 50	12. 14	·1005					
13. 52	51. 30	12. 33	·1032					
14. 8	21. 48. 35	12. 40	·1025					
14. 45	22. 0. 0	12. 52	·1041					
15. 1	21. 2. 0		***					
15. 14	1. 10	13. 5	·1046					
15. 28	3. 40	13. 16	·1021					
15. 55	0. 0	13. 46	·1032					
16. 23	0. 0	14. 9	·1015					
16. 45	22. 2. 50	14. 23:	·1017					
16. 55	21. 59. 45	14. 35	·1006					
17. 18	21. 59. 30	15. 3	·1021					
17. 42	22. 1. 0	15. 15	·1018					
18. 5	0. 25	15. 46	·1023					
	***	16. 53	·1017					
18. 45	22. 1. 40	17. 35	·1031					
	***	18. 6	·1021					
19. 22	21. 58. 25	18. 53	·1024					
	***		***					
19. 25	22. 0. 30	19. 9	·1021					
	***	19. 30:	·1028					
19. 31	22. 1. 0		***					
20. 17	21. 59. 20	20. 30	·1015					
20. 48	22. 2. 45	21. 0:	·1015					
21. 17	2. 30	21. 36	·0999					
21. 31	7. 0	21. 45	·0998					
21. 46	5. 30	22. 5	·1019					
21. 59	8. 25	22. 20	·0999					
22. 22	2. 35	22. 35	·0996					
22. 47	5. 30		***					
22. 57	3. 30	23. 59	·1000					
23. 2	4. 30							
23. 15	2. 30							
	***							
23. 59	3. 50							
Feb. 15.		Feb. 15.		Feb. 15.		Feb. 15.		
0. 28	22. 9. 0	0. 0	·1001	0. 34	·01160	1. 40	48 ·0	51 ·0
1. 10	10. 0	0. 35	·1008	1. 11	·01112	3. 40	50 ·0	52 ·0
1. 16	7. 45		***	2. 25	·01106	9. 40	58 ·0	50 ·0
1. 23	9. 0	1. 19	·0987	4. 13	·01160	21. 40	41 ·0	43 ·0
	***	1. 23	·0993	4. 17	·01222			
1. 42	4. 35	1. 32	·0987		***			
2. 2	7. 10	2. 0	·1001	4. 50	·01308			
2. 15	6. 0	2. 13	·0998		***			
	*	2. 25	·1008	5. 20	·01292			
3. 2	10. 0	2. 39	·1003	5. 50	·01368			
	***		***	6. 33	·01360			
3. 38	10. 30	3. 0	·1010	6. 47	·01400			
3. 48	9. 0	3. 10	·1004	7. 11	·01328			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Feb. 15.		Feb. 15.		Feb. 15.				
h m	° ′ ″	h m		h m		h m	°	°
4. 25	22. 15. 0	3. 17	·1008	7. 53	·01320			
	***	3. 35	·1004	8. 49	·01396			
4. 45	21. 54. 45		***	10. 14	·01448			
4. 51	22. 0. 30	3. 43	·0996	10. 30	·01430			
5. 18	21. 57. 35	4. 3	·1013	11. 15	·01440			
5. 26	22. 2. 30		***	11. 37	·01484			
5. 38	21. 48. 30	4. 43	·0996	13. 13:	·01628			
6. 3	21. 58. 40	4. 50	·1022	13. 58	·01658			
6. 15	22. 3. 0	4. 53	·1007	15. 48	{·01852			
6. 27	22. 1. 30	5. 0	·1014		{·01830			
6. 43	21. 37. 45		***	17. 33	·01852			
6. 54	58. 30	5. 23	·0994	20. 8	·01850			
7. 8	49. 30	5. 30	·0964	20. 30	·01864			
7. 18	58. 50	5. 53	·1005	22. 13:	·01825			
7. 23	21. 57. 15		***	23. 6	·01828			
7. 47	22. 1. 10	6. 23	·0988	23. 37	·01852			
7. 56	21. 57. 0	6. 30	·0995					
	***	6. 42	·0984					
8. 18	57. 30	7. 0	·1046					
8. 29	21. 55. 30	7. 10	·1019					
8. 39	22. 0. 25	7. 20	·1045					
8. 47	21. 59. 0	7. 30	·1026					
8. 59	22. 1. 0	7. 40	·1031					
9. 7	21. 57. 30	7. 53	·0996					
9. 15	22. 1. 30	8. 5	·1004					
9. 27	21. 54. 25		***					
	***	8. 29	·0998					
9. 42	53. 25	8. 34	·1001					
10. 8	55. 15	8. 45	·0988					
10. 18	59. 30	8. 58	·1005					
10. 33	58. 15	9. 5	·0999					
10. 47	58. 30	9. 12	·1010					
	***	9. 20	·1003					
11. 15	59. 30	9. 28	·1008					
11. 28	54. 30	9. 38	·1001					
11. 59	58. 50		***					
12. 13	58. 25	10. 9	·1005					
12. 40	59. 30	10. 40	·1033					
13. 19	52. 0	10. 53	·1026					
13. 36	21. 54. 35	11. 2	·1026					
13. 53	22. 1. 35	11. 14	·1021					
14. 8	21. 57. 15	11. 21	·1008					
14. 20	59. 30	11. 40	·1025					
14. 43	59. 50	12. 0	·1019					
15. 2	21. 58. 0	12. 37	·1020					
15. 30	22. 4. 30	12. 52	·1016					
	***	13. 30	·1030					
15. 54	4. 35	13. 44	·1046					
	***	14. 5	·1019					
16. 23	1. 35	14. 14	·1024					
16. 31	3. 31	14. 40	·1026					
16. 42	3. 35		***					
16. 53	2. 0	15. 8	·1018					
17. 34	3. 30		***					
	***	15. 55	·1027					
17. 50	1. 35		***					
	***	16. 20	·1024					
19. 7	1. 25	16. 29	·1030					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15		Feb. 15						
h m	° ′ ″	h m		h m		h m		
19. 54	22. 4. 30	16. 50	·1024					
20. 26	0. 50							
20. 55	2. 35	19. 8	·1032					
21. 44	0. 30							
		20. 0	·1019					
22. 44	2. 30							
22. 55	4. 30	21. 0	·1037					
23. 16	2. 35	21. 38	·1036					
23. 47	7. 10	23. 15	·1014					
23. 58	5. 45	23. 45	·1016					
		23. 59	·1002					
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 10	22. 7. 0	0. 0	·1002	0. 12	·01855	1. 40	44 ·5	46 ·5
0. 31	6. 35	0. 5	·1018	1. 14	·01858	3. 40	46 ·0	48 ·5
0. 53	3. 40			2. 1	·01805	9. 40	48 ·4	49 ·7
1. 36	7. 0	0. 40	·1002	4. 22	·01495	21. 40	46 ·0	48 ·0
1. 55	6. 0			5. 26	·01385			
2. 7	8. 45	1. 43	·1004	6. 17	·01260			
2. 49	6. 35	2. 2	·1016	6. 28	·01262			
3. 15	2. 40	2. 22	·1002					
4. 1	7. 50	2. 30	·1006	7. 23	·01132			
4. 24	5. 30	2. 58	·0990	8. 16	·01210			
4. 45	8. 10	3. 9	·1002	8. 26	·01195			
		3. 45:	·1013	8. 32	·01210			
5. 36	1. 30	4. 20	·1001	8. 41	·01155			
5. 53	22. 5. 20	4. 38	·1010	9. 53	·01248			
6. 18	21. 46. 0	4. 59	·0999	11. 3	·01258			
6. 30	52. 30	5. 9	·1006	11. 23	·01285			
6. 39	49. 30			11. 38	·01272			
6. 52	58. 50	5. 34	·1006	12. 40	·01250			
7. 2	52. 30	5. 50	·1018	13. 10	·01330			
7. 14	54. 45			14. 33	·01340			
7. 26	49. 35	6. 14	·1002	14. 51	·01368			
7. 38	56. 40	6. 25	·1057	15. 30	·01262			
7. 43	55. 40	6. 36	·1047	16. 8	·01303			
7. 56	59. 30	6. 44	·1057	16. 38	·01208			
8. 8	21. 49. 20	6. 59	·1025	17. 50:	·01375			
8. 18	22. 2. 30	7. 4	·1036	18. 38	·01397			
8. 26	21. 56. 15	7. 18	·1015	19. 52	·01423			
8. 36	22. 15. 0	7. 34	·1015	21. 10:	·01448			
8. 43	21. 54. 30	7. 58	·0994	22. 42	·01435			
8. 48	57. 0	8. 8	·0993	23. 32	·01468			
8. 56	53. 0	8. 11	·1020	23. 59	·01458			
9. 6	52. 30	8. 17	·1008					
9. 12	54. 25	8. 29	·1043					
9. 22	51. 30	8. 38	·0978					
9. 35	54. 25	8. 45	·1015					
9. 43	54. 0	8. 50	·1004					
10. 0	58. 0	9. 8	·1004					
10. 20	57. 45							
10. 31	54. 30	9. 30	·0991					
11. 2	52. 45	9. 53	·1006					
11. 30	58. 50							
11. 48	53. 0	11. 10	·1007					
12. 1	52. 0	11. 30	·1022					
12. 10	55. 0	11. 45	·1013					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16		Feb. 16						
h m	° ′ ″	h m		h m		h m	°	
12. 22	21. 54. 30	12. 0	·1026					
12. 44	52. 10	12. 23	·1023					
13. 8	58. 0	12. 36	·1012					
13. 51	59. 30	12. 55	·1014					
14. 14	58. 0	13. 14	·1024					
14. 38	21. 50. 0							
15. 6	22. 14. 0	14. 0	·1022					
15. 40	21. 54. 25							
16. 11	22. 4. 25	14. 30	·1013					
16. 46	21. 57. 30	14. 53	·1096					
		15. 27	·1013					
18. 8	22. 2. 30	16. 5	·1037					
		16. 20	·1023					
18. 55	21. 59. 25	16. 37	·1020					
19. 17	22. 4. 30	17. 12	·1028					
		17. 31	·1024					
20. 38	0. 0	18. 9	·1036					
		18. 23	·1030					
21. 43	1. 10	18. 34:	·1016					
		18. 52	·1008					
21. 58	3. 30	19. 5:	·1022					
		19. 19	·1021					
23. 59	5. 30	19. 31	·1030					
		20. 35	·1022					
		20. 50	·1030					
		21. 20:	·1024					
		21. 50	·1028					
		22. 57	·0982					
		23. 14	·1002					
		23. 15	·0990					
		23. 34	·0996					
		23. 38	·1008					
		23. 44	·0992					
		23. 49	·1010					
		23. 59	·1004					
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 14	22. 8. 0	0. 14	·0999	0. 10	·01458	1. 40	49 ·0	50 ·5
				2. 31:	·01335	3. 40	51 ·0	52 ·5
0. 38	9. 40	0. 50	·1001			9. 40	50 ·0	52 ·5
				3. 52	·01195	21. 40	40 ·0	42 ·0
1. 3	6. 30	1. 11	·1012	4. 11	·01236			
		1. 30	·1004	4. 47	·01226			
1. 22	7. 30			5. 0	·01240			
1. 47	4. 30	3. 9	·1024	5. 25	·01220			
				5. 43:	·01230			
3. 23	7. 30	3. 38	·1003	8. 22	·01128			
3. 48	3. 30	4. 0	·1021	8. 27	·01135			
4. 42	22. 5. 30			9. 3	·01100			
5. 32:	21. 43. 30	4. 35	·1018	10. 37	·01172			
5. 58	49. 30	4. 47	·1006	12. 7	·01288			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 17		Feb. 17		Feb. 17				
h m	° ′	h m		h m		h m	°	°
6. 31	21. 50. 35	5. 19	·0996	12. 28	·01288			
7. 18	22. 5. 0	5. 40	·1020	13. 4	·01308			
7. 37	2. 30	5. 52	·1016	17. 13	·01890			
8. 10	22. 3. 0	6. 0	·1021	17. 18	·01863			
8. 22	21. 46. 35	6. 18	·1012	19. 15:	·01840			
8. 43	21. 58. 50	6. 55	·1021	20. 58	·01878			
9. 1	22. 1. 0	6. 50	·1015	22. 20	·01825			
9. 13	21. 58. 0	8. 13	·1008	22. 52	·01830			
	***	8. 25	·1057	23. 7	·01810			
9. 42	22. 3. 30	9. 0	·1018	23. 57	·01815			
10. 7	21. 56. 30	9. 14	·1024					
10. 18	55. 30	9. 30	·1007					
10. 38	54. 45	10. 0	·1016					
10. 58	57. 30	10. 15	·1034					
11. 46	58. 50	10. 45	·1021					
12. 0	21. 57. 30	10. 51	·1026					
12. 14	22. 1. 30	11. 10	·1016					
12. 30	1. 30		***					
12. 47	22. 5. 10	12. 0	·1015					
13. 17	21. 57. 30	12. 30	·1027					
13. 40	22. 0. 30	12. 37	·1027					
13. 57	21. 58. 40	12. 53	·1018					
14. 13	22. 0. 30	13. 20	·1028					
14. 23	4. 35	13. 35	·1023					
14. 45	5. 30	13. 45:	·1026					
15. 8	2. 45	14. 15:	·1021					
15. 30	3. 0	15. 45	·1030					
15. 48	8. 30	16. 0:	·1025					
16. 11	5. 0		***					
	***	17. 15	·1031					
16. 33	2. 30		***					
	***	18. 45	·1031					
18. 25	3. 45	19. 5	·1035					
	***		*					
21. 44	2. 0							
	***							
22. 22	3. 30							
	***							
23. 23	2. 25							
	***							
23. 33	4. 30							
	***							
23. 59	4. 30							
	***							
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 7	22. 4. 30	1. 15	·1015	0. 22	·01818	1. 40	44 ·0	44 ·8
	***		***	1. 38	·01883	3. 40	46 ·0	47 ·0
0. 37	8. 30	1. 42	·1016	2. 49	·01810	9. 40	45 ·5	47 ·3
1. 2	7. 0	1. 52	·1003	6. 45	·01425	23. 20	38 ·5	42 ·5
1. 13	8. 15		***	7. 28	·01388			
	***	2. 44	·1009	8. 7	·01384			
2. 36	4. 30		***	8. 26	·01364			
	***	3. 6	·1001	9. 13:	·01374			
3. 38	5. 30		***		{ ·01817			
	***	3. 40	·1002	16. 40	{ ·01801			
5. 8	1. 20		***	21. 48	·01798			
6. 25	22. 1. 30	4. 0	·1009	23. 24	·01778			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 18		Feb. 18		Feb. 18				
h m	° ′	h m		h m		h m	°	°
6. 43	21. 56. 45	4. 46	·1003	23. 59	·01785			
6. 52	57. 30	5. 2	·1001					
7. 7	21. 49. 35		***					
8. 5	22. 0. 30	5. 15	·1020					
8. 10	21. 57. 30		***					
8. 18	22. 0. 25	5. 50	·1026					
8. 34	21. 51. 15		***					
8. 51	54. 15	5. 53	·1036					
9. 14	55. 0	6. 9	·1039					
9. 44	59. 20		***					
10. 7	58. 0	6. 50	·1028					
10. 44	59. 30	7. 5	·1039					
10. 53	21. 58. 25	7. 19	·1036					
	***	7. 31	·1049					
11. 43	22. 1. 0	7. 55	·1041					
	***	8. 6	·1066					
13. 6	21. 59. 30	8. 20	·1053					
13. 28	22. 1. 25	8. 33	·1060					
13. 50	21. 59. 30	9. 8:	·1041					
14. 37	22. 1. 50	10. 0	·1036					
15. 17	1. 35		***					
15. 38	3. 0	11. 15	·1050					
18. 10	1. 0	11. 21	·1058					
18. 38	2. 50	11. 31	·1052					
21. 25	1. 35	11. 46	·1056					
22. 51	2. 0	12. 0	·1052					
23. 4	3. 30	12. 30	·1062					
23. 59	5. 0		***					
		13. 10	·1051					
			***					
		13. 45	·1061					
		14. 0	·1056					
		15. 16	·1054					
		16. 0	·1060					
		18. 17	·1063					
		20. 25	·1064					
			***					
		23. 30	·1056					
		23. 59	·1055					
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 15	22. 5. 30	0. 0	·1056	0. 22	·01795	11 ·26	43 ·0	45 ·0
0. 31	5. 30	0. 28	·1060	3. 16:	·01765	21. 40	41 ·5	43 ·5
1. 15	7. 45	0. 46	·1051	4. 57	·01634			
2. 6	6. 45	1. 25	·1055	8. 26	·01402			
2. 37	7. 30	1. 30	·1065	10. 7	·01363			
3. 26	6. 30	1. 48	·1063	11. 13	·01325			
4. 23	3. 30	2. 0	·1069	13. 34	·01358			
6. 7	5. 35	2. 35:	·1055	14. 29	·01340			
6. 38	8. 0	3. 14	·1057	19. 7	·01503			
	***		***	21. 44	·01482			
7. 23	2. 10	3. 50	·1052	23. 59	·01484			
7. 31	3. 50	5. 0:	·1062					
9. 36:	0. 45	6. 15	·1046					
10. 9	5. 15	6. 56	·1059					
10. 44	0. 30	7. 13	·1051					
10. 59	22. 1. 30	7. 25	·1059					
11. 18	21. 58. 45	8. 5	·1055					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 19		Feb. 19						
h m	° ′ ″	h m		h m		h m	°	°
11. 38	22. 1. 0	9. 45	·1059					
12. 23	21. 54. 10	11. 0	·1057					
12. 45:	58. 20	11. 10	·1054					
13. 8	21. 58. 20	11. 35	·1061					
13. 40	22. 1. 0	12. 0	·1050					
14. 20	21. 58. 25		***					
15. 6	22. 3. 25	12. 50	·1046					
16. 45	2. 45	15. 8:	·1062					
17. 46	2. 45	15. 50:	·1058					
18. 12	0. 35	17. 45	·1064					
21. 8	3. 0	19. 5	·1070					
22. 4	3. 0	19. 36	·1062					
23. 59	5. 45	20. 8	·1062					
		20. 40	·1066					
		22. 0	·1059					
		22. 8	·1066					
		22. 20	·1058					
		23. 0	·1060					
		23. 59	·1048					
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 17	22. 5. 30	0. 0	·1048	0. 7	·01482	1. 40	44 ·0	47 ·0
1. 0	6. 30	0. 20	·1044	2. 20:	·01365	3. 40	47 ·0	52 ·0
1. 38	5. 0	0. 40	·1048	4. 8	·01072	9. 40	53 ·5	53 ·5
3. 15	5. 15	1. 0	·0050	5. 47:	·01150	21. 40	47 ·0	49 ·5
5. 30	2. 30	2. 50	·1047	9. 40:	·01125			
13. 15	2. 0	4. 0:	·1038	10. 43	·01152			
13. 37	3. 30	5. 45	·1044	11. 28	·01140			
14. 4	1. 15	7. 45	·1046	13. 59	·01192			
14. 38	2. 40	10. 27	·1042	18. 25:	·01405			
15. 22	2. 0	13. 8	·1043	23. 46	·02008			
15. 40	3. 15	13. 36	·1051	23. 59	·02010			
16. 38	1. 40	14. 23	·1044					
17. 52	3. 0	16. 27	·1051					
18. 32	3. 30	17. 50:	·1050					
19. 5	1. 40	19. 10:	·1057					
23. 3	0. 30	21. 0	·1057					
23. 59	2. 35	22. 24	·1049					
		23. 30:	·1036					
		23. 59	·1036					
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 16	22. 3. 35	0. 0	·1037	0. 15	·02013	1. 40	48 ·8	51 ·0
1. 44	6. 30	1. 0	·1036	2. 10:	·01925	3. 40	54 ·0	55 ·0
4. 53	2. 30		***	5. 53	·01215	9. 40	55 ·0	56 ·0
11. 13	2. 10	3. 25	·1037	5. 54	·01230	21. 40	45 ·8	48 ·5
12. 7	1. 0	5. 35	·1041	6. 10	·01235			
12. 29	2. 0	6. 0	·1037	6. 14	·01245			
13. 25	1. 0	7. 40	·1038	9. 29:	·01465			
13. 46	2. 0	7. 58	·1033	12. 38	·01088			
14. 1	0. 10	9. 14	·1036	13. 48:	·01800			
14. 39	22. 1. 15	9. 45	·1041	15. 2	·02000			
15. 8	21. 59. 25	11. 9	·1043	16. 15	·02000			
15. 58	21. 59. 45		***	17. 58	·01957			
17. 8	22. 2. 40	11. 55	·1036	20. 13	·01958			
18. 7	1. 0	13. 4	·1044	21. 6:	·01975			
19. 47	22. 2. 15		***	22. 58	·01998			
20. 16	21. 59. 30	14. 23	·1043	23. 33	·01895			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 21		Feb. 21						
h m	° ′ ″	h m		h m		h m	°	°
21. 29	22. 2. 0	14. 50	·1048					
22. 43	2. 30	15. 45:	·1043					
23. 29	4. 30	17. 30:	·1054					
		19. 20	·1059					
		20. 10	·1057					
		21. 38	·1061					
		23. 0	·1054					
		23. 28	·1058					
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 7	22. 5. 0	0. 15	·1056	0. 0	·01880	1. 40	49 ·0	52 ·0
0. 31	4. 30	2. 4	·1052	1. 2	·01875	3. 40	49 ·0	52 ·0
1. 13	6. 0	3. 18	·1054	3. 14	·01768	9. 40	50 ·5	52 ·5
2. 29	7. 10		(†)	4. 7	·01682	21. 40	45 ·0	47 ·0
2. 37	8. 35	11. 45	·1051	6. 17:	·01468			
	***	14. 30	·1051	6. 47	·01448			
3. 56	4. 45	14. 39	·1056	8. 44:	·01378			
4. 53	5. 15		***	12. 53:	·01364			
5. 48	3. 15	15. 20	·1059	16. 13:	·01381			
10. 1	22. 1. 0	15. 30	·1046	19. 37:	·01516			
10. 46	21. 59. 0		***	21. 43:	·01590			
11. 50	22. 2. 30	15. 47	·1044	23. 18	·01700			
17. 48	2. 30	16. 38	·1052	23. 28	·01645			
22. 25	1. 30	17. 25	·1049	23. 59	·01659			
	***		***					
23. 55	5. 30	20. 0	·1056					
		20. 7	·1051					
		20. 25	·1054					
			***					
		21. 55	·1046					
		23. 45	·1051					
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
0. 3	22. 5. 30	0. 0	·1046	0. 17	·01670	1. 40	48 ·0	50 ·0
	***	0. 36	·1036	1. 54:	·01660	3. 40	51 ·5	53 ·5
2. 5	5. 30	1. 10	·1028	4. 39	·01275	9. 40	53 ·0	53 ·0
4. 34	1. 40	2. 15	·1036	5. 46	·01132	21. 40	43 ·5	47 ·0
5. 52	1. 45	5. 35	·1038	6. 30	·01080			
7. 7	2. 15	6. 40	·1043	7. 2	·01100			
7. 52	0. 35		***	8. 57	·01077			
8. 24	22. 2. 10	8. 5:	·1036	10. 58	·01173			
9. 7	21. 56. 30	8. 19	·1040	14. 18	·01453			
9. 49	22. 2. 0		***	17. 38	·01848			
10. 44	21. 59. 0	8. 47	·1036	17. 43	·01862			
11. 1	21. 55. 30	9. 0:	·1028	20. 13	·01864			
12. 26	22. 1. 30	9. 17	·1026	21. 15	·01864			
13. 47	2. 35	9. 45	·1038	23. 12	·01788			
18. 40	2. 30	10. 15	·1031	23. 50	·01785			
20. 52	2. 30	11. 5	·1040					
22. 2	1. 35	11. 25	·1038					
23. 59	5. 0	15. 50	·1051					
		17. 50	·1061					
		19. 33	·1063					
		20. 0	·1069					
		20. 40:	·1065					
		21. 22	·1068					
		22. 17	·1060					
		22. 35	·1062					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Feb. 23 h m		h m		h m	°	°
		23. 40	·1051					
		23. 55	·1052					
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 5	22. 5. 20	0. 40	·1051	0. 15	·01652	1. 40	46 ·0 47 ·5	
1. 47	7. 0	1. 14	·1050	2. 52:	·01580	3. 40	49 ·0 52 ·0	
2. 2	6. 0	2. 0	·1042	4. 32	·01273	9. 58	50 ·8 53 ·0	
4. 4	7. 30	2. 56	·1049		***	21. 40	49 ·5 51 ·0	
4. 24	9. 30		***	4. 58	·01255			
	***	4. 0	·1042		***			
4. 59	8. 30	4. 16	·1052	5. 26	·01175			
5. 7	13. 0	4. 30	·1037		***			
5. 19	10. 45		***	6. 9	·01150			
	***	4. 56	·1060	6. 43	·01374			
5. 38	9. 15	5. 4	·1049	6. 52	·01330			
5. 48	22. 13. 30	5. 10	·1056	6. 57	·01338			
6. 50	21. 45. 30		***	7. 15	·01295			
6. 57	57. 10	5. 25	·1035		***			
7. 0	21. 55. 30	5. 34	·1049	8. 52	·01335			
7. 19	22. 7. 30	5. 44	·1033	9. 15	·01308			
7. 35	21. 58. 10	5. 51	·1043	9. 36	·01338			
7. 55	22. 17. 30	6. 16	·0999	10. 7	·01164			
8. 19	25. 30		***	10. 22	·01178			
8. 36	22. 3. 0	6. 46	·1033	12. 2	·01105			
8. 53	21. 58. 0	6. 52	·1015	12. 23	·01134			
9. 7	58. 30		***	13. 15	·01048			
9. 23	57. 0	7. 7	·1018		***			
9. 28	59. 0	7. 20	·0990	13. 48	·01095			
9. 45	28. 30	7. 50	·1043		***			
9. 59	55. 30	8. 10	·1030	15. 38	·00975			
10. 12	43. 15	8. 29	·0990	16. 36:	·01043			
10. 26	53. 0	8. 59	·1017	18. 32	·01091			
	***	9. 21	·1006		***			
10. 52	59. 25	9. 35	·1014	20. 16	·01138			
	***	9. 45	·1057	22. 7:	·01162			
11. 12	57. 30	10. 9	·0992	23. 23	·01225			
	***	10. 23	·1018	23. 59	·01255			
11. 45	59. 30		***					
12. 17	53. 30	10. 38	·1014					
12. 24	54. 50	10. 45	·1020					
12. 38	51. 20		***					
12. 46	52. 0	11. 8	·1022					
12. 58	46. 0	11. 16	·1018					
13. 7	47. 15	11. 30	·1023					
13. 22	39. 45		***					
13. 47	45. 0	12. 8	·1015					
14. 0	53. 15	12. 32	·1040					
	***		***					
14. 33	55. 35	12. 55	·1032					
14. 38	50. 15	13. 18	·1000					
	***	13. 37	·1022					
15. 24	21. 53. 0	13. 44	·1020					
16. 1	22. 0. 35	13. 54	·1028					
16. 6	21. 59. 30	14. 0	·1026					
16. 21	22. 4. 0	14. 20	·1035					
17. 7	3. 30	14. 36	·1038					
17. 16	0. 30		***					
17. 32	4. 25	15. 15	·1012					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 24 h m	° ′ ″	Feb. 24 h m		h m		h m	°	°
17. 47	22. 2. 30	15. 30	·1010					
	***	15. 45	·1001					
21. 36	1. 0	16. 15	·1020					
	***	16. 28	·1017					
21. 43	3. 30		***					
	***	17. 9	·1028					
22. 13	4. 30	17. 18	·1023					
	***	17. 40	·1036					
22. 23	3. 25	17. 47	·1028					
	***	18. 0	·1027					
22. 41	6. 0	18. 5	·1034					
	***		***					
23. 0	5. 30	19. 10	·1031					
	***		***					
23. 23	9. 40	19. 22	·1038					
	***	19. 26	·1030					
23. 40	8. 10	19. 30	·1038					
	***		***					
23. 59	11. 30	20. 0	·1035					
		20. 4	·1040					
		20. 6	·1030					
		20. 12	·1039					
		20. 43	·1033					
			***					
		21. 25	·1032					
		21. 32	·1025					
		21. 38	·1034					
		21. 50	·1022					
		22. 0	·1027					
			***					
		22. 32	·1025					
			***					
		23. 30	·0978					
			***					
		23. 59	·0994					
			***					
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 8	22. 12. 0	0. 8	·0999	0. 17	·01280	1. 40	51 ·5 53 ·0	
0. 35	11. 30	0. 16	·0992		***	3. 40	54 ·0 55 ·0	
0. 52	8. 0	0. 24	·1004	2. 8	·01266	9. 40	53 ·7 55 ·0	
1. 3	11. 30	0. 30	·0996	3. 5	·01188	23. 15	44 ·0 48 ·0	
1. 13	8. 30	1. 0	·1021	3. 32	·01255			
1. 17	9. 35	1. 11	·1012	3. 34	·01253			
	***	1. 23	·1018	4. 18	·01260			
1. 47	4. 30	1. 46	·1033	4. 24	·01314			
2. 47	11. 15	2. 23	·1037		***			
2. 55	14. 30	2. 40	·1029	6. 19	·01353			
3. 6	10. 30	3. 0	·0987	6. 52	·01417			
	***	3. 10	·1002	7. 7	·01355			
3. 17	11. 30		***	7. 18	·01355			
	***	3. 20	·0995	7. 28	·01332			
3. 31	2. 35		***	7. 51	·01350			
3. 49	7. 30	3. 49	·1018	8. 3	·01322			
	***		***		***			
4. 37	8. 45	4. 23	·1013	10. 10	·01398			
	***	4. 33	·1003	10. 33	·01387			
5. 49	6. 30		***	11. 54:	·01594			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 25		Feb. 25		Feb. 25				
h m	° ′ ″	h m		h m		h m	°	°
5. 38	22. 0. 30	5. 8	·1005	13. 30	·01602			
6. 10	22. 6. 10	5. 15	·1014	13. 53	·01598			
			***		***			
6. 43	21. 40. 0							
6. 55	56. 45	5. 30	·1004	15. 44	·01746			
7. 5	21. 43. 15	5. 36	·1013		***			
			***	17. 10	·01960			
7. 27	22. 3. 30							
7. 38	21. 54. 35	5. 53	·0999	17. 18	·01968			
7. 57	58. 30	6. 5	·1021	17. 49	·01894			
			***		***			
8. 8	52. 20							
8. 20	59. 20	6. 28	·0996	21. 5	·01942			
8. 28	58. 30	6. 47	·1089	23. 14	·01924			
8. 32	59. 20	7. 0	·1037	23. 59	·01930			
8. 47	56. 35	7. 10:	·1057					
9. 1	59. 20	7. 24	·1010					
9. 23	57. 0	7. 45	·1060					
9. 42	58. 30	8. 0	·1028					
9. 57	21. 56. 30	8. 9	·1048					
	***	8. 22	·1026					
10. 23	22. 4. 0	8. 29	·1031					
10. 38	0. 35	8. 37	·1024					
11. 48	22. 0. 35	8. 52	·1033					
11. 54	21. 58. 30	9. 10	·1024					
			***					
12. 8	22. 0. 15							
12. 50	21. 57. 50	10. 22	·1046					
13. 35:	22. 12. 40	10. 26	·1041					
14. 44	21. 59. 20	10. 44:	·1045					
	***	11. 16	·1031					
15. 32	22. 4. 35	11. 29	·1036					
	***	11. 50	·1035					
16. 29	0. 0	11. 59	·1049					
17. 9	6. 0	12. 40:	·1043					
17. 40	2. 45	13. 15	·1025					
	***	13. 50	·1049					
18. 18	3. 25	14. 15	·1049					
	***	14. 40	·1035					
18. 35	1. 0		***					
	***	15. 30	·1047					
19. 45	3. 30	15. 45:	·1037					
	***	16. 8	·1034					
20. 20	9. 0	16. 45	·1015					
20. 40	4. 10	17. 25	·1032					
20. 48	6. 30	17. 45	·1027					
21. 0	3. 30	18. 16	·1041					
21. 17	5. 0	18. 55	·1043					
			***					
21. 26	3. 30							
21. 34	4. 50	19. 35	·1035					
22. 0	3. 0	19. 44	·1038					
22. 15	7. 0	20. 10	·1029					
22. 35	4. 0	20. 15	·1034					
			***					
23. 7	7. 30							
23. 28	4. 30	20. 35	·1034					
23. 59	5. 30	20. 47	·1041					
	***	20. 55	·1036					
		21. 4	·1049					
			***					
		21. 55	·1037					
		22. 9	·1047					
		22. 15	·1042					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Feb. 25						
h m	° ′ ″	h m		h m		h m	°	°
		22. 20	·1049					
		22. 34	·1032					
			***					
		23. 29	·1030					
		23. 59	·1034					
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 17	22. 5. 45	0. 0	·1034	0. 14	·01657	7. 6	48 ·0	51 ·5
	***		***		***	21. 40	43 ·0	47 ·0
1. 8	9. 35	0. 40	·1032	1. 47	·01942			
	***		***		***			
1. 15	8. 30	1. 35	·1034	2. 57	·01960			
1. 34	9. 20		***		***			
1. 42	7. 35	1. 45	·1030	3. 46:	·01955			
1. 56	9. 30	2. 3	·1040		***			
	***		***	4. 54	·01765			
2. 19	6. 30	2. 20	·1025	6. 17	·01643			
	***	2. 28	·1033	6. 45	·01635			
2. 37	8. 0	2. 38	·1024	7. 17	·01573			
	***	2. 50	·1025	7. 42	·01550			
3. 2	3. 10		***	7. 46	·01563			
	***	3. 40	·1043	8. 0	·01480			
3. 50	8. 0	3. 57	·1028	8. 45	·01470			
	***	4. 6	·1036	10. 0:	·01438			
4. 50	5. 10	4. 15	·1032	11. 2	·01440			
	***	4. 44	·1040	11. 7	·01454			
6. 13	4. 50	4. 57	·1037	11. 16	·01417			
7. 2	22. 1. 20	5. 30	·1046	11. 23	·01430			
7. 20	21. 51. 30	5. 42	·1037	11. 45	·01388			
7. 38	54. 35		***	13. 9	·01460			
7. 46	21. 53. 30	5. 54	·1040	13. 45	·01522			
8. 0	22. 8. 30		***	15. 8:	·01618			
8. 16	21. 58. 35	6. 55	·1025	16. 34	·01748			
8. 43	57. 20	7. 20	·1034	16. 58	·01765			
	***	7. 44	·1021	17. 32	·01813			
9. 25	21. 58. 0	7. 50	·1053	17. 39	·01810			
9. 49	22. 0. 50	8. 5	·1022	18. 12	{·01860			
10. 31	21. 59. 0	8. 30	·1023		{·01830			
11. 8	22. 0. 0	8. 48	·1033	20. 1	{·01880			
11. 15	22. 6. 0	9. 20	·1030		{·01800			
11. 24	21. 52. 30	9. 35	·1036		***			
11. 33	57. 30	10. 20	·1038	21. 20:	·01832			
11. 44	21. 51. 30	10. 40:	·1046		***			
12. 7	22. 1. 25	11. 14	·1037	22. 16	·01768			
12. 34	21. 58. 15	11. 17	·1056	23. 59	·01715			
12. 55	58. 50	11. 23	·1051					
13. 16	21. 55. 0	11. 31	·1091					
14. 2	22. 2. 25	11. 45	·1069					
14. 47	22. 1. 30	11. 48	·1073					
15. 8	21. 59. 0	12. 30:	·1038					
16. 12	22. 3. 0	12. 46	·1048					
17. 6	4. 45	13. 15:	·1035					
17. 27	9. 35	14. 10:	·1048					
17. 47	7. 0		***					
17. 55	7. 30	15. 22	1043					
18. 36	0. 20	16. 10	·1038					
	***	16. 32	·1045					
19. 50	4. 30	16. 45	·1043					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Off H. F. Magnet.	Of V. F. Magnet.
Feb. 26	° ′ ″	Feb. 26		h m		h m	°	°
h m		h m						
20. 5	22. 3. 30	17. 5	·1026					
	***		***					
20. 27	6. 45	17. 40	·1030					
	***	18. 13	·1052					
20. 54	2. 35	18. 46	·1053					
20. 59	4. 25	19. 23	·1049					
21. 30	1. 0		***					
21. 58	3. 15	20. 15	·1050					
22. 34	1. 30	20. 24	·1054					
22. 45	2. 35	20. 37	·1044					
23. 15	2. 0	20. 44	·1049					
	***	20. 52	·1045					
23. 59	4. 0	21. 0	·1052					
	***	21. 14	·1045					
		21. 45	·1052					
		23. 0	·1038					
		23. 59	·1035					
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
0. 18	22. 4. 30	0. 0	·1035	0. 22	·01703	1. 40	46 ·0	48 ·0
	***	0. 20	·1035	2. 18:	·01560	3. 40	49 ·5	52 ·5
1. 43	6. 0	0. 40	·1041	3. 43	·01390	9. 40	52 ·5	53 ·5
	***	1. 0	·1032	4. 56	·01128	21. 40	47 ·0	48 ·5
2. 40	11. 20	1. 15	·1034	5. 10	·01145			
2. 48	9. 30	1. 53	·1040	7. 27	·01122			
3. 3	11. 0	2. 18:	·1035	7. 58	·01134			
	***	2. 30	·1036	8. 21	·01128			
3. 43	3. 50	2. 43	·1015	8. 44	·01150			
3. 59	6. 30	3. 9	·1021	9. 2	·01143			
6. 3	4. 0	3. 15	·1016	11. 53	·01205			
7. 0	22. 3. 0		***	12. 32	·01181			
7. 19	21. 58. 0	3. 44	·1034	13. 5	·01225			
7. 53	22. 1. 5	4. 5	·1022	13. 27	·01235			
8. 18	21. 54. 35		***	13. 59	·01288			
8. 38	22. 0. 0	5. 0	·1042	14. 30	·01302			
9. 13	21. 48. 25	5. 13	·1033	16. 47	·01468			
9. 34	53. 30		***	17. 48:	·01585			
9. 44	52. 10	6. 5	·1035	19. 34:	·01715			
10. 29	50. 35	6. 29	·1041	21. 2:	·01856			
11. 16	50. 0	6. 55	·1031	22. 21	·01838			
11. 32	21. 57. 15	7. 10	·1031	23. 44	·01830			
11. 57	22. 3. 30	7. 20	·1021	23. 59	·01822			
12. 8	1. 25	7. 53:	·1033					
12. 16	22. 2. 40		***					
12. 51	21. 44. 50	9. 4	·1021					
13. 8	48. 0	9. 25	·1040					
13. 26	48. 15	9. 44	·1027					
13. 44	21. 57. 30	9. 57	·1035					
14. 17	22. 2. 0	10. 37	·1028					
	***	11. 10	·1033					
14. 48	21. 58. 30	11. 34	·1027					
15. 38	21. 26. 10	11. 50	·1037					
16. 8	22. 6. 30	12. 10	·1034					
16. 38	5. 10	12. 30	·1013					
16. 58	0. 30	13. 1	·1041					
	***	13. 35:	·1031					
17. 56	4. 30	14. 18	·1046					
	***	14. 36	·1035					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Off H. F. Magnet.	Of V. F. Magnet.
Feb. 27	° ′ ″	Feb. 27		h m		h m	°	°
h m		h m						
23. 32	22. 3. 15	15. 8:	·1044					
23. 59	4. 15	15. 50	·1041					
		16. 8	·1029					
			***					
		17. 3	·1049					
		17. 17	·1043					
			***					
		18. 10	·1053					
		20. 57	·1037					
		21. 47	·1042					
		23. 30	·1022					
		23. 41	·1030					
		23. 59	·1028					
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 10	22. 4. 30	0. 0	·1028	0. 13	·01812	1. 40	50 ·0	51 ·5
0. 47	6. 0	0. 32	·1032		***	3. 40	53 ·0	54 ·0
1. 9	5. 30	0. 46	·1036	2. 6:	·01692	9. 40	54 ·0	56 ·0
1. 22	7. 45	1. 8	·1032	5. 11	·01202	21. 40	43 ·0	47 ·0
2. 30	5. 0	1. 21	·1038		·01222			
4. 0	6. 30	1. 45	·1027	6. 32:	·01223			
4. 44	5. 30	2. 7	·1033	6. 51	·01273			
	***	2. 16	·1027	7. 38	·01280			
5. 49	3. 0	2. 46	·1035	9. 48:	·01354			
6. 20	22. 3. 30	3. 5	·1033	10. 53	·01370			
6. 39	21. 54. 0	3. 19	·1036	13. 42:	·01618			
7. 1	22. 1. 0		***	16. 16	·02005			
	***	3. 44	·1040	16. 18	·01980			
9. 43	22. 1. 30	3. 53	·1032	19. 9:	·01895			
10. 0	21. 55. 30	4. 45	·1020	21. 17:	·01938			
10. 8	56. 30	4. 55	·1021	22. 55	·01895			
10. 20	51. 20	5. 14	·1015	23. 59	·01880			
10. 48	54. 10		***					
11. 8	53. 30	6. 15	·1028					
11. 36	56. 30	6. 34	·1023					
11. 54	55. 0	6. 56	·1047					
12. 12	55. 50	7. 15	·1035					
12. 22	55. 10	7. 37	·1030					
12. 43	21. 57. 25		***					
15. 1	22. 3. 35	9. 2	·1033					
15. 52	3. 5	9. 18	·1038					
16. 31	1. 25	9. 45	·1033					
17. 16	2. 0	10. 0	·1064					
17. 48	3. 0	10. 14	·1060					
18. 5	9. 45	10. 30	·1076					
18. 31	4. 0	11. 10	·1042					
21. 51	0. 0	12. 8:	·1032					
22. 16	3. 30	13. 5	·1035					
22. 37	2. 30	13. 45	·1037					
23. 32	3. 10	14. 30	·1037					
23. 48	5. 30		***					
23. 59	5. 25	16. 30	·1050					
		17. 35	·1050					
		18. 0:	·1053					
		18. 35	·1065					
		19. 15:	·1057					
		19. 54	·1062					
		20. 20	·1056					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Feb. 29 h m		h m		h m	°	°
		21. 15:	·1052					
		21. 41	·1045					
		22. 15	·1050					
		22. 40	·1041					
		23. 30	·1037					
		23. 59	·1040					
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 17	22. 5. 20	0. 0	·1040	0. 8	·01880	1. 40	47 ·5	48 ·0
1. 47	6. 35	0. 15	·1041	1. 53:	·01798	3. 40	54 ·0	56 ·0
3. 24	5. 35	0. 30	·1034	3. 26	·01535	9. 40	54 ·5	57 ·2
4. 8	3. 30		***	5. 2	·01165	21. 40	44 ·0	47 ·0
7. 15	22. 0. 25	1. 50	·1034	5. 23:	·01177			
7. 33	21. 57. 0	2. 6	·1032	5. 58:	·01177			
8. 9	21. 56. 35		***	7. 10	·01218			
8. 57	22. 1. 40	3. 10	·1032	8. 47	·01200			
9. 34	1. 35	3. 47	·1020	11. 3	·01303			
9. 54	0. 30		***	14. 38:	·01532			
10. 30	22. 1. 30	4. 33	·1032	17. 50	·01990			
10. 55	21. 58. 35	5. 10	·1026	17. 55	·01965			
12. 15	22. 0. 0		***	19. 42	·01952			
13. 20	21. 59. 30	6. 38	·1033	21. 0:	·01988			
14. 6	22. 2. 0		***	22. 16	·01948			
14. 47	1. 0	7. 30	·1023	23. 59	·01926			
15. 10	2. 0		***					
20. 11	1. 35	8. 21	·1030					
21. 28	0. 30	8. 37	·1025					
23. 59	4. 25	8. 47	·1027					
		9. 14:	·1025					
			***					
		10. 0	·1034					
		10. 35	·1030					
		11. 0	·1036					
		11. 47	·1029					
		12. 0	·1032					
		12. 30:	·1029					
		12. 50:	·1033					
		13. 30	·1031					
		13. 53	·1040					
		16. 50	·1043					
		19. 39	·1050					
		23. 46	·1036					
		23. 59	·1056					
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 20	22. 5. 30	0. 0	·1037	0. 42	·01877	1. 40	47 ·0	50 ·0
0. 43	5. 25	0. 15	·1038	2. 38:	·01740	3. 40	50 ·0	53 ·0
1. 56	7. 10	1. 40	·1043	5. 24	·01264	9. 40	53 ·5	55 ·0
5. 3	2. 35	2. 15	·1037	6. 37	·01126	21. 40	41 ·8	47 ·0
	***	3. 50	·1034	7. 16	·01148			
9. 3	2. 15	5. 9	·1034	9. 27:	·01146			
9. 17	22. 4. 45	6. 4	·1042	11. 15	·01235			
	***	7. 10	·1041	12. 30	·01242			
10. 57	21. 59. 0	7. 53	·1037	14. 12	·01355			
11. 14	22. 1. 25		***	15. 0	·01450			
	***	8. 35	·1040	15. 33	·01450			
12. 8	21. 57. 30	8. 45	·1036	18. 24	·01912			
12. 13	59. 10	9. 20	·1037	18. 30	·01892			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 2		Mar. 2		Mar. 2				
h m	° ′ ″	h m		h m		h m	°	°
12. 33	21. 57. 0	9. 45	·1033	19. 27	·01900			
13. 31	22. 0. 0	10. 10	·1038	21. 22	·01942			
13. 47	22. 2. 35		***	22. 33:	·01863			
14. 8	21. 58. 20	10. 33	·1033	23. 59	·01837			
14. 29	21. 59. 0		***					
15. 8	22. 5. 50	11. 32	·1040					
15. 45	2. 0	11. 44	·1033					
16. 38	2. 15	11. 53	·1046					
17. 8	5. 35	12. 10	·1038					
	***	12. 24	·1054					
18. 15	3. 0	12. 35	·1035					
20. 59	4. 15	12. 50	·1049					
22. 23	2. 30	12. 53	·1054					
22. 32	4. 0	13. 4	·1046					
23. 1	3. 15	13. 10	·1052					
23. 13	6. 30	13. 20	·1051					
23. 20	5. 0	13. 30	·1041					
23. 50	4. 30	13. 48	·1048					
23. 59	5. 35	14. 8	·1040					
			***					
		15. 0	·1052					
			***					
		15. 45	·1045					
		16. 0	·1049					
		16. 56	·1044					
		17. 8	·1053					
		17. 20	·1051					
		17. 48	·1059					
			***					
		19. 25	·1058					
		19. 35	·1065					
		19. 40	·1058					
		19. 55	·1064					
			***					
		21. 9	·1059					
		21. 25	·1052					
		22. 23	·1048					
		22. 30	·1052					
			***					
		23. 5	·1046					
		23. 14	·1058					
		23. 24	·1046					
			***					
		23. 45	·1047					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 42	22. 6. 30	0. 45	·1048	1. 27	·01742	1. 40	46 ·5	48 ·0
1. 23	5. 30	1. 8	·1049	2. 30	·01672	3. 40	51 ·0	53 ·0
1. 40	8. 30	1. 25	·1033	3. 37	·01422	9. 40	54 ·5	56 ·0
2. 0	7. 0	1. 40	·1045	4. 39	·01147	21. 40	44 ·0	47 ·0
2. 30	8. 50	2. 8	·1028		***			
3. 15	5. 15	2. 30	·1037	6. 18	·01230			
3. 47	7. 30		***	8. 25	·01174			
5. 18	22. 3. 30	3. 13	·1034	9. 45	·01218			
5. 46	21. 47. 30	3. 35	·1041	10. 48	·01270			
6. 31	59. 0	3. 40	·1034	11. 27	·01232			
6. 59	21. 55. 45	3. 45	·1050	11. 50	·01275			
7. 32	22. 2. 45	4. 0	·1031	14. 52:	·01555			
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 3		Mar. 3		Mar. 3				
h m	° ′ ″	h m		h m		h m	°	°
8. 37	22. 0. 10	4. 20	·1034	17. 29	·01960			
9. 31	22. 0. 0	4. 30	·1025	17. 34	·01932			
9. 57	21. 57. 0	4. 55	·1036	19. 13	·01950			
10. 10	57. 45	5. 15	·1022	21. 7	·01943			
10. 22	56. 0		***		***			
10. 43	57. 0	5. 25	·1024	22. 26	·01885			
11. 17	43. 25	5. 30	·1017	23. 59	·01860			
11. 44	45. 30		***					
12. 8	52. 30	5. 43	·1025					
12. 26	54. 0	5. 53	·1046					
12. 49	21. 59. 0	6. 5	·1034					
13. 33	22. 4. 0	6. 20	·1032					
14. 8	5. 10	6. 35	·1038					
14. 59	2. 0	6. 53	·1030					
	***	7. 5	·1038					
17. 23	22. 1. 0	7. 40	·1030					
17. 31	21. 59. 15	8. 0	·1037					
18. 17	22. 4. 30	9. 0	·1026					
18. 54	4. 35	9. 32	·1030					
19. 7	6. 35	9. 45	·1040					
19. 27	4. 0	9. 53	·1033					
	***	10. 10	·1038					
20. 46	2. 25	10. 21	·1035					
	***		***					
22. 26	2. 10	10. 44	·1040					
22. 37	3. 35	11. 8	·1034					
22. 52	2. 30	11. 23	·1067					
23. 19	4. 30	11. 44	·1036					
23. 59	5. 0	11. 55	·1044					
		12. 4	·1039					
		12. 13	·1042					
		12. 23	·1032					
		12. 45	·1037					
			***					
		13. 39	·1035					
		13. 55	·1038					
		14. 5	·1037					
		14. 28	·1047					
		15. 0:	·1044					
			***					
		17. 15	·1061					
		18. 8	·1051					
		18. 30	·1060					
		18. 45	·1057					
		19. 35	·1070					
			***					
		20. 0	·1062					
		20. 15	·1068					
			***					
		20. 35	·1069					
			***					
		21. 35	·1060					
			***					
		22. 0	·1054					
			***					
		22. 40	·1056					
		23. 5	·1048					
		23. 15	·1053					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Mar. 3						
h m	° ′ ″	h m		h m		h m	°	°
		23. 45	·1039					
		23. 59	·1021					
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 16	22. 6. 0	0. 0	·1021	0. 15	·01860	1. 40	46 ·0	48 ·5
	***	0. 10	·1030	1. 22	·01847	3. 40	49 ·0	52 ·0
1. 45	9. 30	0. 17	·1018	1. 38	·01858	9. 40	50 ·5	52 ·5
2. 6	8. 0	0. 30	·1026	2. 52:	·01788	23. 20	45 ·5	48 ·0
2. 29	10. 0	0. 38	·1031	5. 5	·01468			
3. 0	4. 30	0. 42	·1021	5. 38:	·01405			
	***		***	6. 28	·01362			
3. 50	5. 45	1. 24	·1050	8. 36:	·01167			
	***	1. 30	·1059	10. 22	·01166			
5. 11	22. 4. 30	2. 4	·1044	12. 2	·01178			
5. 49	21. 56. 35	2. 11	·1048	16. 28	·01320			
6. 40	22. 2. 30	2. 30	·1037	20. 8:	·01580			
8. 17	22. 2. 35	2. 50	·1050	21. 53	·01630			
9. 20	21. 55. 30	3. 48	·1063	21. 58	·01575			
9. 28	58. 0	4. 15	·1051	22. 43	·01583			
10. 1	56. 0	4. 20	·1059	23. 59	·01561			
	***		***					
10. 21	59. 0	4. 45	·1057					
	***	5. 15	·1041					
10. 33	21. 59. 0	5. 46	·1049					
11. 27	22. 2. 10	6. 3	·1041					
12. 2	0. 45	6. 39	·1057					
12. 43	4. 25	6. 59	·1054					
13. 36	2. 30	7. 32	·1061					
13. 52	4. 0	7. 55	·1048					
14. 16	2. 10	8. 25	·1052					
14. 48	2. 0	8. 53	·1048					
15. 1	6. 30	9. 23	·1085					
15. 10	6. 30	10. 0	·1050					
15. 17	8. 35	10. 23	·1059					
15. 22	6. 30	10. 35	·1051					
15. 52	8. 20		***					
16. 54	2. 30	12. 30	·1054					
20. 14	1. 35		***					
21. 52	0. 0	12. 53	·1062					
22. 13	2. 10	13. 32	·1056					
23. 30	1. 0	13. 43	·1060					
23. 49	3. 30	13. 58	·1057					
		14. 4	·1061					
		14. 54	·1057					
		15. 8	·1051					
		15. 17	·1056					
		15. 30	·1055					
			***					
		17. 0	·1062					
		17. 23	·1058					
			***					
		19. 40	·1065					
			***					
		21. 26	·1057					
			***					
		22. 15	·1056					
		22. 30	·1052					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 4 h m		h m		h m	°	°
		23. 35	·1052					
		23. 59	·1053					
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 16	22. 4. 10	0. 15	·1051	0. 4	·01550	9. 45	49 ·5	52 ·7
1. 47	8. 0	1. 23	·1053	0. 43	·01548	21. 40	40 ·5	44 ·5
3. 4	7. 0	2. 40	·1050	3. 15:	·01538			
5. 23	22. 2. 35	4. 0	·1052	5. 52	·01248			
6. 27	21. 57. 25	4. 15	·1051	8. 14	·01040			
7. 37	22. 3. 30	4. 31	·1056	10. 33:	·01032			
12. 17	1. 30		***	14. 2	·01362			
13. 29	22. 1. 0	6. 9	·1047	14. 21	·01373			
13. 45	21. 59. 25	6. 19	·1040	17. 47	·01858			
14. 10	22. 9. 0	6. 40	·1046	17. 50	·01843			
14. 34	22. 3. 30	8. 15	·1052	18. 12	·01843			
15. 25	21. 59. 10	8. 50	·1058		·01765			
16. 2	22. 1. 0	10. 10	·1055	18. 43	·01790			
	***	13. 55	·1058	19. 47	·01790			
18. 27	1. 28	14. 5	·1067	21. 5	·01820			
	***	14. 23:	·1065	22. 18	·01755			
19. 23	4. 50	14. 50	·1069	23. 59	·01710			
19. 52	3. 25		***					
20. 7	6. 0	15. 15	·1064					
20. 45	1. 50		***					
21. 9	2. 35	17. 12	·1068					
21. 37	0. 45		***					
	***	17. 57	·1076					
23. 34	3. 0	18. 15	·1076					
23. 47	5. 35	18. 45:	·1069					
23. 59	4. 30		***					
		20. 0	·1080					
		20. 40	·1072					
		21. 37	·1070					
		22. 0	·1069					
			***					
		22. 23	·1054					
		23. 8	·1055					
			***					
		23. 43	·1036					
		23. 59:	·1043					
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 7	22. 4. 20	0. 0	·1044	0. 8	·01706	1. 40	43 ·8	47 ·0
1. 16	7. 0		***	1. 4	·01677	3. 40	48 ·0	51 ·0
1. 26	12. 0	1. 8	·1043	1. 55	·01650	9. 40	51 ·0	53 ·0
	***	1. 32	·1059	3. 13:	·01582	21. 40	43 ·0	45 ·0
2. 27	4. 30	1. 50	·1028	5. 5	·01115			
	***	2. 7	·1044	5. 21	·01128			
4. 53	5. 0	2. 30	·1038	5. 50	·01153			
	***	2. 44	·1046	6. 13	·01120			
5. 36	22. 4. 0	2. 58	·1040	6. 32	·01106			
6. 7	21. 58. 30	3. 30	·1042	7. 0	·01135			
6. 17	59. 15	4. 5	·1042	8. 22	·01118			
6. 59	38. 0	4. 12	·1047	10. 2	·01140			
7. 20	42. 30		***	11. 22	·01185			
7. 40	42. 30	4. 45	·1044	11. 52	·01115			
8. 22	57. 25		***	19. 13	·01882			
8. 30	21. 57. 0	5. 23	·1048	19. 22	·01863			
9. 18	22. 1. 30		***	20. 15	·01865			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected or Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 6	° ′ ″	Mar. 6		Mar. 6		h m	°	°
h m		h m		h m				
10. 14	22. 0. 50	6. 15	·1037	21. 36:	·01890			
10. 34	22. 2. 30	6. 39	·1013	23. 5	·01820			
11. 2	21. 57. 25	7. 6	·1050	23. 59	·01800			
11. 19	22. 1. 30	7. 15	·1043					
11. 32	10. 30	7. 24	·1045					
11. 54	7. 0	7. 32	·1028					
12. 7	1. 50	7. 45	·1035					
12. 15	22. 2. 35	8. 25	·1013					
12. 40	21. 59. 0	9. 17	·1038					
13. 12	21. 57. 30	9. 45:	·1034					
13. 37	22. 0. 30	10. 40	·1047					
13. 47	21. 59. 40	11. 23	·1037					
14. 0	22. 1. 30	11. 50	·1070					
	***	12. 8	·1055					
15. 18	2. 0	12. 20	·1056					
15. 38	3. 30	12. 39	·1043					
15. 48	2. 20	13. 8	·1051					
	***	13. 17	·1047					
19. 45	3. 0	13. 45	·1043					
	***		***					
21. 40	2. 0	20. 0	·1067					
22. 8	5. 0		***					
22. 22	4. 10	21. 0	·1058					
	***		***					
23. 26	7. 30	22. 3	·1057					
	***	22. 25:	·1051					
23. 45	4. 30	22. 46	·1050					
23. 59	6. 30	22. 55	·1038					
		23. 4	·1038					
		23. 30	·1007					
		23. 59	·1034					
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 7	22. 5. 30	0. 21	·1044	0. 38	·01770	1. 40	45 ·0	47 ·0
0. 24	9. 30	0. 44	·1038	2. 47	·01760	3. 40	48 ·0	50 ·0
0. 57	6. 30	1. 0	·1044	4. 0	·01562	9. 40	52 ·0	53 ·0
1. 25	10. 35	1. 35	·1041	4. 47	·01410	21. 40	50 ·0	52 ·0
1. 51	12. 0	1. 45	·1046	7. 2	·01118			
2. 7	9. 0	2. 3	·1024	7. 26	·01130			
2. 12	10. 20		***	8. 36	·01100			
2. 22	7. 30	2. 40	·1040	9. 13	·01014			
	***	2. 46	·1034	10. 37	·01063			
3. 16	7. 35	2. 57	·1045	12. 16	·01022			
	***		***	15. 58	·01070			
3. 42	5. 35	3. 23	·1034	17. 22	·01118			
4. 40	22. 7. 0		***	21. 0	·01160			
5. 28	21. 58. 0	4. 0	·1031	22. 9	·01105			
5. 40	59. 0	4. 20	·1046	22. 34	·01060			
6. 13	54. 35		***	23. 4:	·01030			
6. 32	58. 15	4. 45:	·1032	23. 59	·01050			
6. 58	21. 59. 30		***					
7. 23	22. 4. 0	5. 3	·1042					
7. 43	22. 1. 25	5. 15	·1035					
7. 52	21. 56. 0	5. 25	·1042					
8. 21	59. 30	5. 40	·1042					
8. 31	48. 30	5. 50	·1032					
8. 43	51. 30	6. 0	·1031					
8. 50	48. 10	6. 23	·1043					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Mar. 7	
h m	° ′ ″
9. 6	21. 46. 10
9. 23	21. 53. 20
10. 7	22. 1. 0
10. 29	21. 58. 45
10. 56	22. 1. 0
13. 54	3. 23
14. 16	4. 30
14. 51	3. 30
15. 18:	8. 30
15. 50	4. 45
	***
17. 16	2. 30
	***
19. 23	3. 0
	***
21. 17	1. 0
	***
22. 58	2. 30
23. 10	4. 30
23. 23	3. 25
23. 52	4. 30
Mar. 8	
0. 5	22. 7. 0
0. 47	5. 50
2. 3	7. 25
2. 29	6. 30
3. 11	8. 15
6. 28	2. 10
8. 22	3. 40
9. 48	3. 0
10. 25	22. 3. 30
10. 59	21. 58. 30
11. 41	22. 2. 10
11. 53	5. 15
12. 9	2. 35
13. 18	0. 45
13. 53	6. 30
14. 22	1. 35
14. 55	2. 35
15. 36	1. 25
18. 20	4. 25
20. 59	2. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 7	
h m	
7. 5	·1042
7. 22	·1033
	***
7. 45	·1038
7. 50	·1032
8. 5	·1048
8. 27	·1044
8. 39	·1078
8. 50	·1064
8. 55	·1067
9. 20	·1058
9. 35	·1039
9. 50	·1040
10. 27	·1031
10. 40	·1042
11. 8	·1041
11. 23	·1049
	***
11. 58	·1030
13. 0	·1043
13. 10	·1048
13. 20	·1047
	***
15. 50	·1051
16. 8:	·1047
	***
18. 15	·1052
18. 25	·1048
	***
21. 30	·1030
21. 37	·1046
22. 5	·1048
23. 29	·1034
23. 35	·1040
23. 40	·1036
23. 59	·1034
Mar. 8	
0. 5	·1036
0. 15	·1033
0. 50	·1032
	***
2. 27	·1031
3. 10	·1036
3. 29	·1028
3. 35	·1033
	***
5. 18	·1028
5. 30	·1035
5. 45	·1031
	***
7. 8	·1031
8. 23	·1038
8. 50	·1034
10. 24	·1035
11. 8	·1048
11. 45	·1036
11. 58	·1044

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Mar. 8	
0. 13	·01053
3. 10	·01198
3. 32	·01203
	·01259
3. 54	·01218
6. 22:	·01195
7. 17:	·01225
9. 18	·01198
	·01185
12. 5	·01200
13. 50	·01243
14. 3	·01238
18. 3	·01510
20. 33	·01628
21. 36	·01598
23. 32	·01575
23. 59	·01560

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Mar. 8		
1. 40	·54	·55
3. 40	·57	·58
9. 40	·58	·59
21. 40	·55	·57

Göttingen Mean Solar Time.	Western Declination.
Mar. 8	
h m	° ′ ″
22. 15	22. 2. 0
23. 59	6. 25
Mar. 9	
0. 16	22. 6. 35
2. 20	11. 30
2. 55	8. 20
4. 40	7. 25
5. 47	3. 30
6. 25	22. 4. 35
7. 2	21. 41. 30
7. 38	59. 30
7. 45	21. 59. 20
7. 59	22. 2. 0
8. 52	3. 30
10. 37	3. 25
11. 33	2. 15
13. 12	3. 30
13. 22	6. 0
13. 46	4. 10
18. 50	2. 35
21. 48	0. 40
22. 36	1. 0
23. 59	5. 30
Mar. 10	
0. 4	22. 5. 35
0. 55	7. 15
2. 7	7. 45
4. 6	5. 40
5. 25	3. 25
6. 51	2. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 8	
h m	
12. 8	·1042
12. 23:	·1045
13. 20	·1033
13. 39	·1038
14. 0:	·1031
14. 40	·1044
15. 6	·1046
	***
16. 25	·1040
	***
18. 5	·1044
18. 25	·1049
18. 53	·1046
	***
19. 35	·1053
20. 23	·1044
	***
21. 17	·1042
21. 29	·1037
21. 40	·1038
23. 9	·1027
23. 59	·1033
Mar. 9	
0. 0	·1033
0. 15	·1034
	***
0. 31	·1033
	***
2. 16	·1026
	***
2. 46	·1014
4. 20	·1030
4. 39	·1028
4. 53	·1021
5. 23	·1022
5. 50	·1028
6. 18	·1027
6. 45	·0998
7. 15	·1035
	***
7. 43	·1021
	***
8. 38	·1026
8. 55	·1023
11. 30	·1032
13. 13	·1030
14. 50	·1032
19. 20	·1040
23. 59	·1021
Mar. 10	
0. 0	·1021
	***
1. 0	·1024
1. 36	·1032
2. 44	·1026
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Mar. 9	
0. 17	·01535
1. 2	·01515
2. 14:	·01448
3. 24	·01265
4. 37	·01300
5. 30	·01273
6. 6	·01270
6. 47	·01257
7. 17	·01280
8. 59:	·01210
13. 26	·01443
17. 46:	·01818
19. 53	·02057
	(†)
21. 40	·02177*
Mar. 10	
	(†)
1. 40	·02171*
3. 17	·02153
5. 15	·01990
6. 42:	·01895
7. 32	·01873

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet	Of V. F. Magnet.
h m	°	°
Mar. 9		
1. 40	·56	·59
3. 40	·60	·62
9. 40	·62	·63
21. 40	·56	·57
Mar. 10		
1. 40	·57	·58
3. 40	·58	·62
9. 40	·57	·58
21. 40	·51	·53

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
h m	° ′ ″	h m		h m		h m	°	
14. 45	22. 3. 0	3. 40	·1028	9. 8:	·01833			
15. 30	3. 40	4. 5	·1033	11. 31:	·01945			
15. 58	2. 0		***	13. 15	·02160			
16. 24	3. 20	5. 0	·1032		·02095			
16. 53	2. 0	8. 39	·1041	19. 55	·02028			
17. 10	2. 30	10. 14	·1039	20. 13	·02005			
17. 42	1. 30	11. 30	·1042	21. 25:	·02005			
18. 24	5. 15	12. 0	·1041	22. 48	·01858			
	***	15. 0	·1043	23. 59	·01745			
20. 13	2. 15	15. 45	·1046					
	***	16. 15:	·1042					
22. 40	3. 0	17. 35	·1048					
	***	18. 16:	·1043					
23. 59	6. 35	19. 20	·1056					
		22. 2	·1033					
			***					
		23. 30	·1032					
		23. 59	·1030					
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 8	22. 7. 35	0. 10	·1027	0. 14	·01725	1. 45	54 ·0	56 ·0
0. 52	9. 30		***	2. 34	·01645	3. 40	58 ·0	58 ·5
1. 31	10. 0	1. 0	·1032	4. 40	·01110	9. 45	59 ·0	61 ·5
3. 58	7. 10	1. 43	·1032	6. 3	·01120	23. 20	49 ·0	51 ·0
6. 52	1. 35	2. 15:	·1027	7. 20	·01163			
14. 5	3. 25	3. 0	·1031	8. 46	·01198			
15. 12	1. 45	3. 15	·1028	11. 47	·01383			
16. 12	3. 0	4. 7	·1035	12. 37	·01468			
20. 4	2. 10		***	14. 50:	·01688			
20. 27	3. 0	5. 6	·1035	17. 13	·02025			
21. 22	1. 0		***		·01977			
23. 18	4. 30	7. 46	·1030	18. 44	·01973			
23. 32	7. 0	8. 8	·1034	20. 14	·02018			
23. 41	5. 30	10. 2	·1035	21. 15	·02006			
23. 59	6. 0	10. 20	·1039	22. 47	·01952			
		11. 49	·1041		***			
		14. 25:	·1047	23. 59	·01845			
		15. 45	·1041					
		19. 15	·1050					
			***					
		19. 46	·1043					
		20. 23	·1046					
		21. 30	·1044					
		22. 23	·1034					
		22. 50	·1038					
		23. 14	·1032					
		23. 30	·1040					
		23. 43	·1031					
		23. 59	·1032					
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 3	22. 6. 30	0. 8	·1033	0. 18	·01805	11. 32	58 ·5	59 ·0
1. 0	9. 0	3. 35	·1031	2. 20:	·01664	21. 40	51 ·0	55 ·0
6. 3	1. 0	6. 30	·1034	3. 50	·01420			
7. 16	2. 25	6. 55	·1031	4. 56	·01200			
	***	7. 5	·1036	5. 40	·01085			
8. 53	22. 1. 45	7. 25	·1031	5. 51	·01118			
9. 31	21. 58. 0	8. 1	·1038	7. 15	·01175			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12		Mar. 12				
h m	° ′ ″	h m		h m		h m		
10. 3	21. 59. 45	8. 30	·1034	9. 1	·01213			
10. 19	58. 0	8. 46	·1035	9. 13	·01240			
10. 33	57. 40	8. 59	·1034	10. 52	·01316			
10. 50	21. 54. 0	9. 4	·1026	11. 11	·01320			
11. 45	22. 0. 30	9. 15	·1035	11. 42	·01365			
	***	9. 30	·1030	12. 34	·01400			
13. 35	2. 0	10. 40	·1042	15. 8	·01546			
	***	10. 55	·1058	16. 22	·01650			
14. 8	1. 30	11. 17	·1041	17. 4	·01733			
14. 32	5. 0	11. 50	·1032	18. 28:	·01900			
	***	12. 14	·1038	19. 21	·02040			
15. 41	0. 35	12. 30	·1036	19. 27	·02020			
16. 9	22. 3. 0	12. 34	·1040	20. 24:	·02040			
16. 49	21. 58. 0	13. 0	·1031	21. 15	·01835			
17. 21	22. 0. 0	13. 38	·1037	21. 43	·02042			
18. 8	22. 0. 0	14. 31	·1037	22. 44	·02015			
18. 25	21. 58. 25	15. 0	·1042	23. 59	·02005			
20. 30	22. 3. 0	15. 40	·1034					
21. 16	0. 30	16. 16	·1047					
22. 0	0. 30	16. 25	·1044					
23. 53	4. 20		***					
		17. 20	·1046					
			***					
		17. 38	·1040					
			***					
		18. 20	·1043					
		18. 40	·1051					
		18. 50	·1047					
		19. 40	·1046					
		19. 58	·1041					
		20. 48:	·1034					
		21. 55	·1036					
		23. 30	·1036					
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
0. 7	22. 4. 45	0. 5	·1033	0. 18	·01982	1. 40	55 ·3	57 ·3
0. 41:	5. 45		***	1. 47	·01823	3. 40	58 ·3	61 ·3
1. 10	8. 45	1. 14	·1036	3. 25	·01507	9. 40	61 ·0	62 ·5
1. 37	7. 30		***	4. 23	·01320	21. 40	52 ·8	55 ·0
2. 56	9. 0	1. 36	·1032	4. 50	·01277			
3. 10	7. 30	2. 18	·1038	5. 0	·01284			
	***	2. 45	·1034	5. 10	·01335			
5. 30	3. 30	3. 0	·1040	5. 28	·01358			
6. 34	22. 2. 20	3. 25	·1029	6. 2	·01378			
6. 53	21. 57. 0		***	6. 51	·01438			
7. 7	57. 0	4. 4	·1035	7. 30:	·01500			
7. 18	59. 20	4. 55:	·1027	8. 31	·01548			
7. 37	58. 30	5. 28:	·1033	9. 26	·01612			
7. 53	53. 25	5. 58:	·1020	11. 13	·01748			
8. 0	54. 50	6. 26	·1032	12. 40:	·01788			
8. 35	54. 25	6. 47	·1015	13. 13:	·01840			
8. 52	59. 30	6. 55	·1018	13. 52:	·01890			
9. 9	21. 58. 30		***	14. 48	·02065			
9. 22	22. 1. 35	7. 16	·1013		·02050			
9. 43	21. 58. 15	7. 25	·1016	16. 50:	·02070			
10. 41	21. 57. 15	7. 38	·1012	18. 7	·02060			
	***	7. 55	·1021	19. 4	·02100			
11. 30	22. 2. 0	8. 30	·1013	20. 31	·02170			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13		Mar. 13		Mar. 13				
h m	° ′ ″	h m		h m		h m		
12. 2	22. 1. 0	8. 43	·1017	21. 40:	·02068			
12. 31	22. 3. 15	9. 6	·1012	22. 53:	·02072			
13. 5	21. 55. 30	9. 16	·1021	23. 58	·02025			
13. 42	57. 30	9. 30	·1015					
14. 8	21. 54. 35	10. 12:	·1020					
14. 38	22. 6. 0	10. 40	·1015					
15. 18	0. 0	11. 2	·1016					
15. 40	22. 1. 0	11. 6	·1025					
16. 21	21. 57. 15	11. 12	·1018					
17. 7	59. 15	11. 23	·1027					
	***	11. 50	·1022					
19. 1	59. 30	12. 15	·1035					
	***		***					
21. 20	21. 57. 0	12. 32	·1034					
	***	12. 48	·1027					
22. 28	22. 3. 30	13. 20:	·1046					
	***	14. 4:	·1025					
23. 15	4. 45	14. 22	·1030					
23. 30	3. 0	14. 40	·1021					
23. 59	6. 30	15. 20:	·1042					
		15. 50	·1036					
		16. 15	·1041					
		17. 0:	·1036					
		17. 53	·1042					
		19. 53	·1044					
			***					
		21. 6	·1032					
		21. 40	·1014					
		22. 8	·1010					
		22. 50	·1021					
		23. 10	·1020					
		23. 59	·1029					
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
0. 17	22. 9. 35	0. 0	·1029	0. 37	·01965	1. 40	·74 ·576 ·5	
1. 8	8. 30	0. 15	·1034	1. 10	·01937	3. 40	·56 ·558 ·0	
2. 20	10. 25	0. 40	·1032	3. 25	·01852	9. 40	·57 ·558 ·0	
3. 13	7. 35	1. 0	·1033	6. 22	·01560	21. 40	·49 ·550 ·0	
	***	1. 50	·1040	7. 40	·01442			
6. 2	2. 0	3. 0	·1030	9. 8:	·01405			
7. 9	2. 30		***	10. 33	·01427			
8. 2	1. 30	6. 45	·1034	15. 26	·01692			
13. 22	1. 0	10. 53	·1042	17. 7:	·01865			
13. 51	3. 35		***	18. 17	·02045			
14. 22	0. 45	13. 44	·1043	18. 58	·02007			
15. 0	22. 2. 40	14. 8:	·1048	19. 30	·02018			
15. 44	21. 59. 30	14. 36	·1046	19. 50	·01960			
17. 18	21. 58. 30	14. 53	·1038	20. 27	·02014			
18. 27	22. 3. 30	15. 40	·1050	21. 20	·02012			
19. 21	21. 59. 0	16. 15	·1052	22. 5	·01963			
19. 47	22. 0. 15	17. 55	·1045	23. 59	·01763			
	***	18. 25:	·1048					
21. 32	21. 59. 10	19. 0:	·1056					
23. 20	22. 2. 45	19. 20	·1053					
23. 59	5. 30	20. 30	·1054					
		21. 0	·1045					
		22. 3	·1044					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Mar. 14						
h m	° ′ ″	h m		h m		h m		
		23. 22	·1032					
		23. 59	·1035					
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 18	22. 7. 10	0. 0	·1035	0. 40	·01736	1. 40	·53 ·554 ·0	
0. 32	9. 30	0. 15	·1038	1. 40	·01625	3. 40	·56 ·558 ·0	
0. 45	8. 30	1. 23	·1043	3. 25:	·01455	9. 40	·54 ·561 ·0	
1. 20	10. 45		***	5. 38	·01074	21. 40	·54 ·556 ·0	
1. 54	9. 30	1. 45	·1036	5. 47	·01079			
5. 6	5. 30	3. 8	·1047	6. 40	·01075			
7. 7	2. 0		***	9. 1	·01110			
7. 22	3. 10	4. 13	·1046	9. 13	·01125			
7. 38	2. 15	4. 32	·1051	9. 30	·01075			
7. 52	22. 3. 35	5. 0	·1043	9. 38	·01110			
8. 27	21. 53. 0	6. 14	·1051	10. 6	·01068			
8. 38	52. 0	6. 46	·1045		***			
8. 58	21. 55. 30	7. 4	·1054	11. 15	·01115			
9. 13	22. 9. 0	7. 23	·1043		***			
9. 25	0. 30	7. 43	·1046	12. 48	·01122			
9. 32	22. 0. 0	8. 27	·1026	12. 58	·01135			
9. 42	21. 51. 0	8. 32	·1030	13. 34	·01045			
9. 58	57. 30	8. 45	·1026	13. 43	·01066			
10. 10	50. 20	9. 0	·1008	14. 8	·00952			
10. 20	50. 35	9. 10	·1018	14. 23	·01000			
10. 27	49. 40	9. 18	·1003	14. 52:	·01155			
10. 38	52. 30	9. 34	·1021	15. 28	·01215			
10. 48	21. 52. 0	9. 39	·1018	15. 50	·01160			
11. 23	22. 0. 0	9. 49	·1036	17. 2	·01388			
11. 58	21. 43. 30	10. 5	·0999	17. 49	·01428			
12. 16	50. 35	10. 18	·1013	18. 26:	·01475			
12. 31	47. 30	10. 25	·1005	19. 9	·01582			
13. 7	9. 30	10. 38	·1004		***			
13. 32	23. 0	11. 8	·1024	20. 45	·01697			
13. 55	58. 30	11. 31	·1021	21. 14	·01715			
14. 10	21. 57. 30	11. 45	·1032	21. 53:	·01756			
14. 20	22. 2. 0	12. 8	·1036	22. 9	·01745			
14. 35	21. 53. 30	12. 30	·1007		·01672			
14. 46	53. 0	12. 37	·1018	22. 30	·01675			
15. 2	56. 20	12. 45	·1002	23. 24	·01606			
15. 6	56. 0		***	23. 59	·01578			
15. 15	59. 30	13. 14	·1056					
15. 25	21. 57. 30	14. 0	·0962					
15. 38	22. 4. 35	14. 35	·1030					
15. 45	2. 10	14. 50	·1027					
15. 52	22. 3. 15	15. 2	·1018					
16. 2	21. 58. 25	15. 10	·1023					
16. 13	22. 1. 30	15. 17	·1015					
16. 18	0. 30	15. 33	·1012					
16. 28	3. 0	15. 44	·0989					
	***	15. 55	·1000					
16. 47	22. 3. 0	16. 8	·1021					
16. 56	21. 59. 15	16. 15	·1018					
17. 14	22. 2. 30	16. 23	·1024					
17. 17	22. 3. 0		***					
17. 29	21. 59. 30	16. 45	·1025					
17. 37	22. 1. 20	16. 53	·1021					
18. 5	21. 59. 0	17. 0	·1030					
	***	17. 13	·1028					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 15		Mar. 15						
h m	° ′ ″	h m		h m		h m	°	°
19. 1	22. 4. 0	17. 25	·1016					
19. 5	6. 0	17. 35	·1024					
	***	17. 47	·1017					
19. 40	7. 0	18. 8:	·1027					
	***	18. 39	·1014					
20. 25	0. 30		***					
20. 50	2. 35	19. 15	·1022					
	***	19. 27	·1037					
21. 21	0. 30	19. 32	·1027					
	***	19. 40	·1038					
21. 35	7. 0	19. 50	·1030					
	***		***					
22. 23	2. 30	20. 30	·1022					
	***	20. 44	·1028					
23. 12	5. 0		***					
	***	21. 12	·1012					
23. 52	4. 50	21. 25	·1017					
23. 59	6. 30	21. 44	·1006					
		22. 8	·1021					
			***					
		22. 55	·1028					
		23. 26	·1025					
			***					
		23. 59	·1028					
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 19	22. 9. 30	0. 0	·1027	0. 15	·01568	1. 40	56 ·0	58 ·0
0. 53	12. 0		***	1. 50	·01520	3. 40	56 ·0	58 ·5
1. 1	11. 20	0. 38	·1036	2. 32	·01548	9. 40	59 ·0	60 ·5
1. 37	17. 0	0. 45	·1017	3. 40	·01410	21. 40	49 ·0	50 ·5
1. 57	9. 30	0. 55	·1017	5. 17	·01264			
	***	1. 2	·1008	5. 51	·01195			
2. 23	5. 0	1. 15	·1004	6. 39	·01150			
2. 47	7. 50	1. 25	·0998	7. 22	·01228			
3. 3	6. 15	1. 35	·1002	7. 52	·01152			
3. 37	7. 35		***		***			
4. 1	11. 30	2. 6	·0981	9. 45	·01192			
4. 12	10. 45	2. 32	·1016	10. 3	·01100			
4. 26	13. 15	2. 55	·1013	10. 15	·01113			
	***	3. 38	·1022	10. 28	·01055			
5. 1	3. 45	4. 4	·1038	10. 37	·01120			
	***	4. 15	·1021	11. 32	·01166			
5. 28	5. 0	4. 19	·1020	12. 3:	·01225			
5. 36	4. 25	4. 40	·0998	13. 25	·01245			
6. 3	3. 30	5. 10	·1023	13. 38	·01285			
6. 18	5. 15		***	13. 54	·01268			
6. 25	22. 4. 25	5. 38	·1017	14. 1	·01280			
6. 48	21. 30. 35		***	14. 18	·01260			
7. 15	22. 4. 30	6. 30	·1030	14. 38	·01260			
8. 1	21. 48. 35	6. 46	·0995	15. 45:	·01580			
8. 7	49. 45	7. 8	·1044	16. 48	·01732			
8. 15	49. 0	7. 15	·1030	17. 38	·01982			
8. 25	52. 50	7. 24	·1049	19. 2:	·01908			
8. 30	52. 30	7. 39	·1019	21. 22:	·01970			
8. 51	21. 59. 10	7. 50	·1017	23. 59	·01900			
	***	8. 0	·1029					
9. 24	22. 1. 30	8. 8	·1024					
9. 36	21. 43. 30	8. 14	·1025					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 16		Mar. 16						
h m	° ′ ″	h m		h m		h m	°	°
9. 56	22. 9. 0	8. 24	·1012					
10. 5	21. 55. 10		***					
10. 14	22. 11. 0	8. 40	·1016					
10. 17	10. 0	8. 49	·1011					
10. 22	22. 15. 30	9. 0	·1011					
10. 34	21. 49. 25	9. 5	·1017					
10. 43	48. 0	9. 30	·1001					
10. 46	47. 35	9. 44	·1066					
10. 58	53. 35	10. 0	·1003					
11. 8	45. 0	10. 12	·1054					
11. 17	49. 40	10. 27	·0990					
11. 31	48. 30	10. 39	·1034					
11. 51	53. 30	10. 55	·1044					
12. 28	50. 30	11. 7	·1017					
12. 49	58. 30	11. 15	·1029					
12. 53	21. 58. 0	11. 34	·1011					
13. 11	22. 0. 30	11. 47	·1021					
13. 16	21. 59. 45	12. 0	·1018					
13. 35	22. 13. 0	12. 6	·1024					
13. 55	17. 0	12. 23	·1021					
14. 24	22. 5. 30		***					
14. 38	21. 55. 30	12. 43:	·1008					
14. 55	49. 50	13. 10	·1024					
15. 18	51. 40	13. 20	·1018					
15. 40	21. 58. 0	13. 30	·1043					
	***	13. 45	·1039					
17. 37	22. 2. 35	13. 52	·1044					
17. 55	6. 20		***					
	***	14. 15	·1033					
18. 53	3. 0	14. 35	·1007					
	***	15. 0	·1021					
19. 18	6. 0	15. 18	·1018					
	***	15. 47	·1019					
20. 24	3. 35	16. 0	·1025					
	***	16. 19	·1024					
21. 14	6. 0	16. 45:	·1025					
	***	17. 30:	·1012					
22. 7	4. 30		***					
	***	18. 40	·1046					
23. 35	5. 45	18. 53	·1042					
23. 48	8. 0		***					
		19. 32	·1046					
		19. 44	·1040					
			***					
		21. 20	·1026					
			***					
		21. 53:	·1026					
			***					
		23. 0	·1032					
		23. 4	·1030					
		23. 13	·1026					
		23. 45	·1034					
		23. 59	·1026					
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 18	22. 6. 0	0. 0	·1027	0. 13	·01885	1. 40	52 ·5	54 ·0
0. 29	7. 15	0. 16	·1019	1. 38	·01846	3. 40	56 ·0	57 ·2
0. 37	6. 30	0. 30	·1027	2. 50	·01718	9. 53	57 ·0	58 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
h m	° ′ ″	h m		h m		h m	°	°
0. 55	22. 7. 30	0. 43	·1022	3. 35	·01600	21. 40	45 ·8	49 ·7
1. 2	5. 45	1. 10	·1036	3. 56	·01506			
		1. 38	·1048	5. 23	·01258			
1. 47	9. 15	1. 51	·1037	6. 40	·01117			
1. 53	6. 25	2. 8:	·1042	7. 50:	·01143			
		2. 30	·1038	8. 28	·01148			
2. 52	7. 0			9. 9	·01144			
2. 58	4. 35	2. 52	·1042	9. 59	·01170			
3. 53	4. 0	2. 55	·1036	10. 50	·01153			
4. 31	4. 35			12. 56	·01315			
5. 18	22. 3. 0	4. 0:	·1043	16. 40	·01932			
5. 39	21. 59. 10				·01918			
6. 35	22. 2. 20	5. 30	·1028	18. 25	·01920			
7. 10	0. 0	6. 0	·1049	19. 47	·01955			
7. 40	1. 30	7. 8:	·1037	20. 25	·01925			
7. 56	0. 30			20. 37	·01940			
8. 21	2. 15	9. 13	·1043	21. 24:	·01913			
9. 16	1. 0	9. 26	·1052	22. 20	·01848			
10. 9	3. 35	9. 38	·1048	23. 59	·01757			
10. 22	22. 7. 0	9. 53	·1050					
11. 10	21. 59. 0	10. 20	·1065					
11. 28	22. 1. 45	10. 55	·1045					
11. 46	0. 30							
12. 13	4. 25	11. 20	·1053					
		11. 43	·1049					
13. 2	22. 2. 30	12. 0	·1050					
13. 32	21. 58. 45	12. 20	·1042					
14. 17	59. 30	12. 40	·1059					
14. 37	21. 58. 30	13. 23	·1050					
15. 40:	22. 2. 0	13. 35	·1012					
16. 48	1. 20	13. 57	·1047					
17. 53	4. 55	15. 40	·1052					
20. 28	2. 0	17. 0:	·1061					
21. 5	2. 35	18. 0	·1053					
21. 32	1. 0	19. 40:	·1068					
23. 48	5. 15	21. 6	·1059					
		22. 35	·1059					
		23. 15	·1050					
		23. 59	·1059					
Mar. 18		Mar. 18		Mar. 18		Mar. 18		
0. 0	22. 6. 15	0. 0	·1058	0. 11	·01748	1. 40	49 ·2	53 ·0
1. 6	8. 20	0. 10	·1060	0. 23	·01713	3. 40	53 ·5	55 ·0
4. 17	6. 30			3. 8	·01494	9. 40	54 ·0	55 ·0
4. 48	4. 0	1. 14	·1058	5. 45	·01105	23. 26	48 ·0	51 ·5
7. 15	1. 30			7. 2:	·00996			
7. 56	22. 2. 50	2. 20	·1056	7. 35	·00980			
8. 20	21. 59. 10	4. 15	·1058	9. 58	·00922			
8. 36	22. 0. 30	4. 44	·1050	11. 22	·00933			
9. 5	21. 54. 0			15. 15	·01182			
9. 35	58. 25	5. 11	·1063	19. 22:	·01314			
		6. 4	·1060	21. 14	·01604			
11. 2	57. 15	6. 46	·1066	21. 26	·01565			
11. 15	58. 45	7. 13	·1063	23. 40	·01505			
11. 45	21. 57. 45	7. 19	·1067	23. 59	·01507			
12. 13	22. 0. 15	8. 9	·1060					
12. 26	21. 59. 0	8. 28	·1066					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 18		Mar. 18				Mar. 19		
h m	° ′ ″	h m		h m		h m	°	°
12. 55	22. 2. 0	8. 53	·1059					
13. 49	1. 40	9. 30	·1081					
14. 38	4. 35	9. 43	·1079					
15. 21	3. 0	10. 8	·1079					
15. 35	3. 35	10. 25	·1070					
16. 20	2. 20	10. 47	·1078					
19. 8	2. 30	11. 35	·1062					
21. 8:	0. 0	12. 1	·1065					
23. 59	6. 0	14. 8	·1063					
		18. 30	·1078					
		19. 44	·1076					
		23. 59	·1061					
Mar. 19		Mar. 19		Mar. 19		Mar. 19		
0. 25	22. 6. 0	0. 0	·1061	0. 25	·01517	9. 44	47 ·0	52 ·5
1. 20	7. 30	0. 10	·1060	1. 28	·01518	21. 40	44 ·0	46 ·0
2. 16	7. 30	1. 35	·1058	2. 37	·01492			
6. 7	3. 35	9. 23	·1078	6. 38	·01465			
9. 50	22. 2. 10	9. 55	·1077	7. 45	·01498			
10. 9:	21. 54. 0	10. 14	·1084	8. 50	·01507			
10. 50:	22. 0. 0	10. 45	·1068	9. 47	·01530			
11. 21	21. 58. 30	11. 3:	·1075	10. 2	·01482			
14. 1	22. 3. 0	12. 0	·1072	10. 43	·01508			
19. 30	22. 3. 0	13. 23	·1068	11. 54	·01500			
22. 2:	21. 59. 45	16. 16	·1073	14. 34	·01517			
23. 59	22. 4. 15	20. 2	·1083	18. 35	·01580			
		21. 45	·1074	20. 20	·01615			
		22. 29	·1066	23. 59	·01528			
		23. 20:	·1054					
		23. 59	·1054					
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 7	22. 4. 30	0. 0	·1054	0. 15	·01525	1. 40	45 ·8	47 ·3
1. 31	7. 0	0. 36	·1054	3. 24:	·01448	3. 40	49 ·0	50 ·0
	***	1. 0	·1055	6. 28	·01142	9. 40	49 ·5	51 ·0
3. 40	8. 0	1. 43	·1054	7. 15	·01108	21. 40	45 ·2	47 ·0
4. 25	5. 45	2. 17	·1058	8. 30	·01025			
8. 20	0. 40		***	8. 58	·01015			
9. 32	22. 2. 30	4. 3	·1048	13. 9	·00986			
	***	5. 31	·1066	14. 53	·01042			
10. 48	21. 58. 30	6. 45	·1069	17. 46	·01203			
12. 2	21. 58. 30		***	18. 32:	·01258			
12. 39	22. 7. 15	9. 29	·1055	20. 50	·01336			
13. 38:	21. 58. 20		***	23. 8	·01370			
15. 20	22. 2. 50	13. 0	·1068	23. 59	·01362			
17. 45	2. 0	13. 30	·1078					
20. 13	4. 0	14. 0:	·1071					
	***	15. 7	·1068					
21. 27	1. 30	17. 55	·1076					
23. 59	6. 30	18. 23	·1074					
		19. 15	·1077					
		20. 30:	·1076					
		22. 28	·1059					
		23. 7	·1056					
		23. 59	·1058					
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 10	22. 6. 30	0. 0	·1058	0. 53	·01280	1. 40	49 ·0	51 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F.	Of V. F.
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
h m	° ′ ″	h m		h m		h m	°	°
0. 56	22. 8. 45	0. 14	·1058	1. 21	·01360	3. 40	53 ·0	53 ·5
1. 23	7. 25	0. 45	·1061	1. 39	·01360	9. 40	55 ·5	56 ·5
1. 48	8. 30	0. 58	·1063	2. 52	·01295	21. 40	45 ·0	48 ·0
2. 19	7. 35	1. 25	·1057	3. 54:	·01150			
2. 52	8. 30	1. 34	·1061		·01018			
3. 25	7. 0			4. 40	·01057			
5. 17	6. 30	5. 30	·1055	6. 26	·01063			
7. 15	3. 25			6. 36	·01095			
8. 51	22. 3. 0	6. 40	·1066	7. 1	·01129			
9. 19	21. 59. 45			7. 45	·01159			
9. 51	22. 1. 30	8. 15	·1070	8. 46	·01174			
10. 13	0. 0			10. 8	·01230			
		9. 17	·1059	11. 38	·01271			
13. 19	0. 0	10. 2	·1059	12. 45	·01339			
13. 43	22. 7. 30			13. 17	·01374			
15. 5	21. 57. 20	10. 30	·1071	14. 27	·01459			
16. 26	22. 0. 30			15. 51	·01649			
16. 37	21. 59. 0	11. 10	·1069	17. 27	·01889			
				18. 21	·01864			
21. 7	22. 0. 0	12. 16	·1074	21. 32	·01869			
23. 59	4. 0	12. 30	·1070		·01785			
		12. 45	·1074	23. 7	·01690			
		13. 23	·1072	23. 59	·01652			
		14. 58	·1080					
		15. 45	·1075					
		17. 15:	·1086					
		18. 0	·1083					
		19. 30	·1082					
		20. 4	·1086					
		21. 30	·1076					
		23. 59	·1070					
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 25	22. 3. 30	0. 0	·1070	0. 30	·01634	1. 40	48 ·5	50 ·0
1. 50	5. 0	3. 13	·1063	1. 43	·01586	3. 40	52 ·5	53 ·5
4. 21	4. 0			2. 30	·01532	9. 40	54 ·5	55 ·5
6. 4	4. 15	4. 39	·1069	3. 23	·01451	21. 40	49 ·2	52 ·7
7. 0	3. 30	5. 8	·1060	5. 23	·01065			
7. 23	5. 0	7. 30	·1059	6. 13	·01017			
		9. 0	·1066	7. 30	·01059			
8. 32	1. 30	9. 22	·1055	9. 14	·01042			
		10. 3	·1070	10. 13	·01034			
9. 1	22. 1. 50	10. 45	·1060	11. 58	·01043			
9. 33	21. 56. 0	14. 3	·1066	12. 15	·01032			
10. 2	59. 25	16. 55	·1073	14. 45	·01092			
10. 17	21. 58. 0		(†)	16. 28	·01194			
11. 16	22. 2. 25	23. 15	·1070	18. 21	·01329			
13. 2	0. 50	23. 59	·1066	20. 1	·01448			
21. 7	0. 30			21. 12	·01481			
23. 55	5. 30			22. 34	·01485			
				23. 59	·01540			
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
0. 23	22. 6. 15	0. 0	·1066	0. 26	·01549	1. 40	51 ·5	53 ·0
2. 7	7. 30	0. 45	·1067	1. 42	·01571	3. 40	53 ·0	55 ·0
2. 44	6. 0	1. 0	·1067	3. 4	·01568	9. 40	55 ·0	58 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F.	Of V. F.
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
h m	° ′ ″	h m		h m		h m	°	°
3. 33	22. 5. 30	1. 15	·1064	4. 5	·01450	21. 40	49 ·7	49 ·7
4. 5	3. 30	3. 45	·1062	5. 14	·01258			
6. 52	22. 0. 30	4. 8:	·1056	6. 18	·01081			
7. 18	21. 57. 30			7. 38	·01121			
8. 2	21. 56. 0	6. 30	·1057	8. 45	·01076			
9. 23	22. 1. 0	7. 0	·1048	9. 1	·01109			
				9. 56	·01149			
11. 18	1. 10	8. 0	·1058	10. 45	·01197			
11. 39	3. 0			11. 55	·01275			
12. 19	2. 10	9. 0	·1055	12. 26	·01365			
12. 49	6. 50	9. 26	·1062	13. 15	·01398			
13. 35	1. 15	9. 51	·1056	16. 51	·01849			
19. 38	0. 45	10. 23	·1062	17. 20	·01892			
23. 59	4. 55			18. 38	·01879			
		11. 45	·1065	21. 21	·01894			
		12. 20	·1063	22. 15	·01885			
		12. 55:	·1057	22. 58	·01866			
		14. 0	·1067	23. 16	·01847			
		14. 52	·1073	23. 59	·01809			
		15. 15	·1070					
		18. 29	·1076					
		19. 40	·1076					
		20. 8	·1072					
		22. 0	·1069					
		22. 31	·1074					
		23. 17	·1068					
		23. 59	·1069					
Mar. 24		Mar. 24		Mar. 24		Mar. 24		
0. 15	22. 5. 10	0. 0	·1069	9. 30	·01715	1. 40	48 ·0	48 ·0
0. 47	5. 35	0. 55	·1070	3. 7	·01680	3. 40	51 ·0	53 ·0
6. 38	2. 15	2. 55	·1067	4. 5	·01589	9. 40	54 ·5	56 ·0
8. 28	1. 30	3. 8	·1069	4. 42	·01487	21. 40	45 ·8	48 ·7
9. 23	22. 3. 0	3. 38	·1066	5. 15	·01382			
9. 47	21. 59. 40			5. 48	·01371			
10. 8	22. 2. 10	6. 8	·1073	6. 56	·01248			
10. 40	21. 55. 40	7. 39	·1055	7. 42	·01204			
11. 24	55. 15			8. 30	·01142			
11. 41	58. 0	8. 45	·1063	9. 15	·01119			
12. 5	21. 55. 15	9. 5	·1060	9. 47	·01116			
13. 20	22. 1. 20	10. 8	·1074	10. 38	·01074			
14. 23	0. 0			11. 33	·01104			
		10. 47	·1067	12. 30	·01123			
16. 33	22. 1. 20	11. 15	·1056	13. 58	·01189			
		11. 50	·1068	14. 13	·01190			
19. 42	21. 59. 30	12. 50	·1064	15. 43	·01335			
21. 38	21. 59. 0	13. 10	·1068	17. 23	·01554			
23. 59	22. 7. 0	14. 25	·1068	19. 36	·01864			
				20. 0	·01869			
		15. 14	·1076	20. 19	·01844			
		19. 18	·1083	21. 15	·01847			
		19. 46	·1078	21. 44	·01830			
		20. 35	·1079	22. 48	·01789			
		21. 32	·1072	23. 18	·01769			
		21. 53:	·1076	23. 45	·01725			
		22. 17	·1069	23. 59	·01714			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	′ ″	Mar.24 h m		h m		h m	°	°
		22. 34	·1072					
		22. 44	·1066					
		23. 0	·1069					
		23. 45	·1070					
		23. 59	·1067					
Mar.25		Mar.25		Mar.25		Mar.25		
0. 22	22. 8. 25	0. 0	·1067	0. 26	·01692	1. 40	47 ·0	50 ·5
	***	0. 49	·1080	0. 46	·01674	3. 40	50 ·5	53 ·0
1. 35	12. 0	1. 15	·1070	1. 3	·01651	9. 40	53 ·0	55 ·0
1. 48	9. 35	1. 27	·1074	1. 17	·01645	23. 15	44 ·5	52 ·0
2. 10	12. 15	1. 41	·1064	1. 45	·01632			
2. 37	11. 0		***	1. 53	·01640			
2. 53	11. 35	2. 10	·1069	2. 15	·01642			
3. 40	8. 0	2. 40	·1074	2. 45	·01639			
4. 0	11. 15		***	3. 27	·01604			
	***	3. 17	·1070	3. 58	·01541			
6. 50	3. 25	3. 30	·1073	4. 36	·01482			
	***	4. 0	·1072	5. 16	·01331			
7. 55	22. 3. 35	4. 29	·1070	6. 19	·01219			
8. 57	21. 51. 0		***	7. 10	·01164			
9. 35	22. 1. 30	5. 20	·1073	8. 30	·01101			
10. 2	22. 3. 0	5. 35	·1071	9. 21	·01079			
10. 44	21. 59. 25	6. 15	·1058	10. 38	·01019			
11. 8	22. 1. 35		***	11. 15	·01014			
11. 22	0. 30	6. 45	·1076	11. 47	·01005			
11. 44	22. 2. 30	7. 8	·1063	12. 16	·01006			
12. 31	21. 48. 0	7. 22	·1064	12. 21	·01012			
12. 45	55. 30		***	12. 32	·01031			
13. 4	59. 40	8. 10	·1056	13. 12	·00971			
13. 20	54. 30		***	13. 51	·00988			
13. 36	58. 45	9. 21	·1061	14. 47	·01014			
13. 53	56. 35	9. 45	·1067	15. 45	·01049			
	***	10. 30	·1068	16. 16	·01052			
14. 54	58. 40	11. 15	·1060	17. 7	·01081			
	***	11. 45	·1067	18. 23	·01164			
15. 30	55. 45	11. 55	·1059	20. 43	·01297			
15. 42	59. 0	12. 5	·1070	22. 42	·01324			
	***		***	23. 0	·01348			
16. 13	55. 0	12. 35	·1058	23. 27	·01325			
	***	12. 42	·1110					
16. 44	58. 0	13. 15	·1069					
16. 58	21. 57. 0	13. 28	·1072					
	***	13. 46	·1060					
18. 59	22. 3. 10	14. 8	·1068					
	***	14. 16	·1064					
20. 28	21. 58. 15	14. 33	·1070					
	***	14. 47	·1068					
21. 33	22. 0. 0	15. 23	·1070					
21. 53	5. 45		***					
22. 38	11. 40	16. 15	·1070					
23. 17	13. 0		***					
23. 52	10. 35	16. 45	·1064					
	***	17. 9	·1052					
		17. 43	·1065					
		18. 15	·1055					
		19. 0	·1067					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	′ ″	Mar.25 h m		h m		h m	°	°
		21. 6	·1058					
		21. 40	·1041					
		21. 46	·1043					
		22. 0	·1038					
		22. 10	·1045					
		22. 35	·1038					
		22. 55	·1048					
		23. 4	·1046					
		23. 23	·1051					
		23. 35	·1056					
		23. 53	·1055					
		23. 59	·1060					
Mar.26		Mar.26		Mar.26		Mar.26		
0. 12	22. 12. 25	0. 0	·1061	0. 22	·01349	9. 13	53 ·0	56 ·2
0. 18	10. 30		***	0. 28	·01348	21. 40	48 ·5	52 ·5
	***	0. 14	·1059		***			
1. 2	14. 45	0. 20	·1048	1. 52	·01382			
1. 13	12. 30	0. 35	·1052	3. 3	·01362			
1. 20	13. 0	0. 46	·1041	3. 23	·01352			
1. 31	10. 30	1. 22	·1041	3. 37	·01329			
1. 37	13. 25	1. 30	·1056	3. 47	·01331			
1. 41	12. 30	2. 36	·1053	4. 42	·01201			
	***	2. 48	·1050	5. 28	·01197			
2. 56	10. 15	3. 5	·1051	6. 34	·01132			
3. 8	11. 30	3. 28	·1064	7. 36	·01086			
	***	3. 38	·1053	8. 20	·01071			
4. 20	7. 30	3. 50	·1060	8. 27	·01064			
	***	4. 13	·1054	8. 28	·01058			
5. 1	8. 25	4. 30	·1061	8. 43	·01065			
5. 10	5. 0	4. 37	·1058	9. 13	·01024			
5. 37	1. 35	4. 45	·1067	9. 52	·01011			
6. 7	0. 30	5. 0	·1064	10. 35	·00985			
7. 20	3. 20	5. 29	·1045	11. 15	·00974			
7. 38	1. 0	5. 52	·1060	12. 12	·00976			
7. 53	22. 2. 0	6. 2	·1055	12. 23	·01971			
8. 28	21. 34. 15	6. 30	·1063	13. 58	·01049			
	***		***	16. 15	·01103			
9. 31	34. 15	7. 0	·1064	18. 14	·01353			
9. 50	49. 30	7. 10	·1058	20. 8	·01497			
10. 16	52. 40	7. 23	·1060	21. 28	·01521			
10. 41	52. 25	7. 45	·1058	22. 13	·01486			
11. 0	57. 0	8. 0	·1064	23. 17	·01497			
11. 24	56. 0	8. 21	·1048					
12. 4	58. 30	8. 44	·1050					
12. 33	51. 25	9. 3	·1086					
12. 44	54. 30	9. 40	·1071					
	***	10. 11	·1066					
13. 22	21. 59. 0	10. 43	·1058					
13. 37	22. 2. 50	11. 14	·1066					
	***	11. 15	·1063					
14. 35	0. 0	11. 30	·1073					
14. 49	3. 0	11. 55	·1056					
15. 42	5. 0	12. 4	·1070					
	***	12. 53	·1044					
17. 9	1. 30		***					
	***	14. 35	·1063					
17. 49	3. 30		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Mar.26		Mar.26						
h m	° ′ ″	h m		h m		h m	°	°
18. 3	22. 2. 15	15. 28	·1062					
18. 26	3. 20	17. 0	·1063					
	***	18. 0:	·1068					
20. 31	0. 45	19. 30:	·1056					
21. 30	1. 0	21. 0:	·1062					
	***	23. 24	·1051					
23. 48	8. 30	23. 45	·1044					
		23. 50	·1048					
		23. 59	·1044					
Mar.27		Mar.27		Mar.27		Mar.27		
0. 8	22. 6. 15	0. 6	·1043	1. 30	·01465	1. 40	52 ·5	54 ·5
1. 0	10. 30	0. 55	·1056	1. 53	·01443	3. 40	53 ·5	55 ·5
1. 10	9. 50		***	2. 22	·01416	9. 40	56 ·3	58 ·0
1. 52	13. 25	1. 24	·1046	2. 28	·01413	21. 40	49 ·0	53 ·0
2. 3	11. 35		***	2. 59	·01354			
	***	2. 20	·1023	3. 6	·01358			
2. 42	14. 0		***	3. 30	·01369			
	***	2. 35	·1030	4. 28	{·01138			
2. 57	11. 0	2. 57	·1002		{·01165			
3. 10	14. 0	3. 15	·1009	5. 38	·01155			
3. 40	4. 30	3. 29	·1004	6. 40	·01106			
4. 20	6. 35		***	7. 28	·01148			
6. 8	4. 0	3. 45	·1003	8. 23	·01140			
	***		***	9. 27	·01156			
11. 52	22. 1. 45	4. 4	·0998	9. 45	·01163			
12. 9	21. 58. 30	4. 23:	·1014	10. 11	·01172			
12. 22	59. 0	4. 53	·1010	11. 52	·01271			
12. 37	55. 0	5. 23	·1016	12. 35	·01376			
	***	5. 30	·1012	13. 45	·01406			
13. 33	52. 50	5. 39	·1020	14. 27	·01466			
13. 47	55. 25	5. 53	·1018	15. 48	·01624			
14. 8	51. 35	6. 10	·1024	16. 12	·01635			
	***	6. 21	·1017	17. 20	·01698			
14. 39	52. 40		***	17. 52	·01759			
15. 14	49. 30	7. 15	·1012	18. 6	·01804			
	***	7. 25	·1021	18. 57	·01873			
15. 55	57. 0		***	19. 20	·01906			
16. 14	52. 10	8. 0	·1015	20. 14	·01865			
16. 44	58. 40		***	20. 53	·01887			
17. 11	53. 0	9. 19	·1015	21. 51	·01875			
	***	9. 24	·1021	22. 27	·01866			
18. 2	21. 58. 50	9. 37	·1013		***			
18. 13	22. 1. 35	10. 5	·1021	23. 18	·01912			
	***	10. 10	·1012	23. 59	·01907			
19. 10	22. 1. 30	11. 23	·1014					
	***	11. 35	·1007					
19. 45	21. 56. 30	11. 46	·1013					
20. 44	21. 58. 0	12. 3	·1006					
	***	12. 30	·1012					
21. 0	22. 6. 0	12. 50	·1020					
	***		***					
21. 26	12. 30	13. 23	·0992					
	***	13. 41	·1001					
22. 8	8. 30	13. 50	·0995					
	***	14. 0	·0998					
22. 48	14. 0	14. 15	·1003					
	***	14. 25	·0995					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Mar.27		Mar.27						
h m	° ′ ″	h m		h m		h m	°	°
23. 1	22. 10. 35	15. 0	·1027					
	***	15. 24	·1000					
23. 8	13. 30	15. 51	·1005					
	***	16. 7	·1016					
23. 21	9. 30	17. 23:	·1008					
	***	17. 45	·0993					
23. 37	13. 35	18. 8	·1019					
	***	18. 25	·1011					
23. 46	12. 0	18. 30	·1006					
	***	19. 9	·1016					
23. 59	14. 30	19. 45:	·0993					
	***	20. 40	·0952					
		20. 50	·0974					
		21. 40	·0952					
		21. 55	·0956					
		22. 14	·0940					
		22. 21	·0954					
		22. 27	·0947					
		22. 33	·0950					
		22. 45	·0949					
		23. 15	·0941					
		23. 56	·0982					
		23. 57	·0980					
Mar.28		Mar.28		Mar.28		Mar.28		
0. 12	22. 15. 0	0. 0	·0980	1. 19	·01806	1. 40	52 ·8	54 ·7
	***		***	1. 42	·01870	3. 40	55 ·5	57 ·0
1. 14	19. 0	0. 23	·0983	1. 56	·01921	9. 40	59 ·0	61 ·5
1. 22	16. 30		***	2. 9	·01923	21. 40	50 ·0	53 ·0
1. 33	17. 40	0. 45	·0970	2. 19	·01872			
1. 39	16. 0		***	2. 41	·01814			
1. 45	18. 0	1. 5	·0972	3. 30	·01763			
2. 0	10. 25	1. 9	·0982	3. 52	·01707			
2. 4	11. 35	1. 15	·0970	3. 59	·01783			
2. 8	9. 0	1. 24	·0983	4. 2	·01765			
2. 40	15. 35	1. 35	·0980	4. 7	·01779			
2. 45	14. 50	1. 40	·0992	4. 13	·01762			
2. 55	16. 30	1. 48	·0972	4. 19	·01768			
	***	2. 2	·0998	4. 28	·01648			
3. 35	10. 15	2. 6	·0991	4. 32	·01650			
3. 55	22. 13. 0	2. 14	·0994	4. 46	·01572			
4. 12	21. 58. 30	2. 30	·0972	4. 52	·01608			
4. 17	22. 4. 0	2. 36	·0980	5. 12	·01498			
4. 25	21. 56. 30	2. 40	·0975	5. 28	·01712			
4. 46	22. 9. 25	2. 55	·0992	5. 48	·01501			
4. 58	21. 56. 0	3. 20	·0979	6. 5	·01411			
5. 7	22. 3. 45	3. 26	·0990	6. 21	·01415			
5. 12	2. 40	3. 32	·0986	6. 44	·01435			
5. 17	22. 4. 30	3. 40	·0990	6. 59	·01461			
5. 26	21. 38. 30		***	7. 31	·01387			
5. 30	49. 30	3. 50	·0987	7. 53	·01312			
5. 35	47. 30	3. 57	·1022	8. 6	·01307			
5. 48	55. 15	4. 12	·0996	8. 15	·01287			
5. 58	53. 0	4. 15	·1008	8. 44	·01283			
	***	4. 25	·0986	9. 25	·01271			
6. 24	21. 50. 0	4. 30	·0998	9. 55	·01211			
	***	4. 40	·0968	10. 14	·01181			
6. 35	22. 4. 30	4. 52	·0998	10. 25	·01196			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Mar. 28		Mar. 28		Mar. 28				
h m	° ′ ″	h m		h m		h m		
6. 45	21. 59. [illegible]	4. 36	·0992	10. 36	·01175			
6. 53	22. 0. 15	5. 1	·1005	10. 45	·01212			
7. 25	21. 31. [illegible]	5. 5	·1002	10. 52	·01207			
7. 45	58. 0	5. 14	·0986	11. 10	·01224			
8. 2	21. 44. 30	5. 20	[illegible]	11. 29	·01213			
8. 7	22. 0. 0	5. 29	·0980	12. 18	·01234			
8. 21	21. 54. 30	5. 31	·1010	13. 0	·01253			
8. 27	56. 0	5. 35	·1004	13. 29	·01261			
8. 30	55. 15	5. 45	·1018	13. 55	·01278			
8. 39	59. 45	5. 55	·0992	14. 35	·01329			
8. 47	21. 58. 20	6. 9	[illegible]	15. 17	·01421			
9. 0	22. 2. 25		***	15. 48	·01463			
9. 18	22. 1. 45	6. 34	·0991	17. 13	·01705			
9. 36	21. 55. 35			18. 21	·01916			
9. 48	22. 3. 0	6. 46	·0979	18. 49	·02050			
10. 8	21. 47. 20	6. 53	·0983	19. 5	·02054			
10. 25	22. 0. 0	6. 56	[illegible]	21. 7	·02044			
10. 37	21. 52. 30	7. 2	·0963	22. 48	·01973			
10. 49	22. 0. 0	7. 13	·0966	23. 30	·01938			
11. 0	21. 54. 30	7. 15	·0962	23. 59	·01914			
11. 16	59. 30	7. 32	·1019					
11. 37	52. 0	7. 53	·0956					
12. 1	47. 50	8. 5	[illegible]					
12. 37	50. 0	8. 15	[illegible]					
13. 1	55. 10	8. 20	·0948					
13. 32	50. 45							
14. 0	21. 51. 30	8. 36	[illegible]					
14. 53	22. 3. 25	8. 45	·0953					
15. 6	3. 40	9. 13	·0970					
15. 24	11. 0	9. 30	·0970					
15. 59	4. 0	9. 47	·1018					
16. 28	22. 0. 30	10. 6	[illegible]					
17. 32	21. 58. 40	10. 24	[illegible]					
18. 42	22. 0. 35	10. 36	[illegible]					
19. 24	21. 58. 0	10. 45	·0986					
22. 24	22. 2. 35	10. 57	·0965					
23. 59	8. 20	11. 4	[illegible]					
		11. 55	[illegible]					
		12. 7	[illegible]					
		13. 0	·0967					
		13. 24	[illegible]					
		13. 45	·0987					
		14. 30	·0972					
		14. 55:	·0986					
		15. 30:	·0982					
		16. 19	·0999					
		17. 53	[illegible]					
			***					
		18. 55	·0992					
			***					
		20. 16	[illegible]					
		22. 28	·0987					
		22. 50	·0990					
		23. 10	·0988					
		23. 23	·0992					
		23. 50	·0987					
		23. 59	·0989					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Mar. 29		Mar. 29		Mar. 29		Mar. 29		
h m	° ′ ″	h m		h m		h m		
0. 18	22. 8. 40	0. 0	·0989	0. 30	·01886	1. 40	53	53 ·5
2. 20	12. 25	0. 15	·0988	0. 43	·01878	3. 40	57	·0 58 ·0
2. 44	6. 30		***	1. 30	·01747	9. 40	61	·0 62 ·3
		2. 20	·0993	2. 20	[illegible]	21. 40	51	·5 54 ·0
3. 22	8. 0	2. 35	·0984	2. 25	·01642			
3. 36	11. 25	3. 8	·1002	2. 50	[illegible]			
	***	3. 17	·0992	3. 20	·01485			
4. 47	22. 7. 0		***	3. 38	·01405			
4. 59	21. 49. 0	3. 37	·0999	3. 48	[illegible]			
5. 12	22. 0. 15	3. 44	·0995	5. 5	[illegible]			
5. 18	21. 59. 0	4. 18	·0991	5. 14	·01335			
5. 44	22. 4. 15	4. 35	·0995	5. 28	·01319			
7. 5	4. 30		***	5. 41	·01307			
8. 7	22. 2. 45	4. 59	·0974	6. 6	[illegible]			
8. 50	21. 59. 15	5. 15	·1030	7. 2	·01336			
9. 13	22. 2. 0	5. 28	·1009	9. 25	·01419			
9. 51	21. 59. 0	5. 35	·1010	9. 47	·01448			
10. 13	22. 2. 15	5. 43	·1003	10. 18	·01476			
10. 24	10. 0	5. 55	·1002	10. 31	·01455			
10. 52	22. 3. 0	6. 0	[illegible]	11. 20	·01483			
11. 7	21. 56. 40	6. 45	[illegible]	11. 58	[illegible]			
11. 26	22. 0. 0	7. 35	·0991	12. 15	·01541			
11. 40	21. 59. 0	8. 25:	·0983	13. 24	·01625			
11. 55	22. 0. 0	9. 5	[illegible]	14. 46	·01752			
12. 22	21. 58. 0	9. 17	[illegible]	15. 37	·01884			
12. 45	22. 2. 0	10. 0	·0992	16. 45	[illegible]			
13. 0	22. 2. 0	10. 14	·0991	18. 49	·02065			
13. 15	21. 59. 40	10. 20	·1003	20. 5	·02100			
13. 51	22. 7. 0		***	20. 10	·02089			
15. 20	0. 0	11. 6	·0986	20. 17	·02097			
16. 51	1. 0	11. 29	·1001	21. 40	·02062			
17. 45	5. 30	11. 40	·0996	22. 42	·02014			
18. 58	0. 30	11. 56	·0998	23. 32	[illegible]			
21. 50	0. 45	12. 10	·0994	23. 59	·01931			
23. 20	4. 30		***					
23. 59	8. 0	13. 23	·0999					
		13. 55	·0994					
		14. 35	·1004					
		15. 43	·1002					
		16. 35:	·1012					
		17. 28:	·1001					
		18. 15	·1015					
		18. 36	·1010					
		19. 45:	·1013					
			***					
		21. 43	·0998					
		23. 11	·0996					
		23. 30	·0991					
		23. 59	·0993					
Mar. 30		Mar. 30		Mar. 30		Mar. 30		
0. 10	22. 8. 15	0. 0	[illegible]	0. 13	[illegible]	1. 40	54	·0 56 ·5
1. 40	10. 20		***	1. 25	[illegible]	3. 40	55	·5 57 ·8
2. 38	8. 15	0. 40	·0996	2. 2	·01863	9. 40	58	·5 60 ·0
3. 5	10. 15	1. 0	[illegible]	2. 33	·01835	21. 40	49	·2 53 ·0
	***		***	3. 5	·01827			
4. 34	8. 50	2. 26	·1000	4. 11	[illegible]			
5. 7	5. 30	3. 3	·1014	4. 30	·01635			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.30	° ′ ″	Mar.30		Mar.30		h m	°	°
h m		h m		h m				
7. 12	22. 2. 30	3. 25	·1008	6. 17	·01434			
7. 35	21. 48. 40		***	7. 7	·01376			
8. 21	53. 20	4. 9	·1017	7. 25	·01358			
8. 34	57. 0		***	8. 40	·01213			
8. 49	21. 55. 0	4. 29	·1002	9. 38	·01157			
9. 38	22. 1. 30	4. 45	·1008	10. 52	·01129			
11. 2	21. 57. 30	4. 52	·1003	11. 47	·01143			
12. 0	22. 3. 25	4. 58	·1006	12. 30	·01139			
12. 37	21. 58. 35	5. 5	·1003	12. 57	·01187			
13. 5	22. 2. 0	5. 30	·1014	16. 12	·01414			
13. 38	21. 57. 0	6. 5	·1012	16. 52	·01494			
14. 3	58. 30		***	18. 42	·01692			
	***	6. 30	·1014	19. 32	·01852			
15. 24	55. 0	7. 9	·1006	19. 48	·01887			
	***	7. 24	·0994	20. 3	·01927			
15. 50	56. 45	7. 43	·1021	20. 14	·01937			
	***	8. 25	·1005	20. 23	·01935			
16. 18	21. 54. 0	8. 45	·0989	20. 40	·01977			
	***	9. 45	·0996	20. 54	·02015			
16. 50	22. 0. 45	10. 15	·1006	21. 15	·02050			
	***	11. 0	·0995	21. 52	·02036			
17. 32	21. 59. 0	11. 53	·1002	22. 10	·02039			
	***	12. 20	·1004	22. 39	·02028			
18. 21	22. 4. 0	12. 45	·1002	22. 56	·02019			
	***	12. 55	·1020	23. 12	·02018			
19. 13	1. 30	13. 9	·1012	23. 59	·02085			
	***	13. 20	·1016					
19. 46	22. 3. 0	13. 39	·1004					
19. 55	21. 58. 0	14. 0	·1013					
20. 4	22. 4. 35	14. 10	·1012					
	***	14. 30	·1021					
20. 22	21. 59. 10	14. 45	·1020					
20. 30	22. 4. 35	15. 0	·1026					
20. 46	1. 0		***					
	***	16. 40	·1018					
21. 21	7. 0	16. 50	·1026					
	***	17. 0	·1024					
22. 7	8. 30	17. 15	·1030					
	***		***					
22. 36	6. 0	17. 33	·1026					
	***	17. 45	·1020					
23. 23	6. 0	18. 15	·1028					
23. 30	9. 30	18. 36	·1024					
	***		***					
23. 59	12. 0	19. 23	·1033					
	***		***					
		19. 45	·1027					
		19. 53	·1021					
		20. 0	·1028					
		20. 18	·1022					
		20. 21	·1014					
		20. 30	·1021					
		20. 51	·0992					
		21. 15	·1009					
			***					
		22. 11	·1001					
		23. 0	·1000					
		23. 23	·0996					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar.30		h m		h m	°	°
		h m						
		23. 27	·0995					
		23. 55	·0966					
		23. 59	·0984					
Mar.31		Mar.31		Mar.31		Mar.31		
0. 33	22. 11. 0	0. 0	·0985	0. 45	·02025	1. 40	52	53
	***	0. 15	·0986	1. 21	·01974	3. 40	50	50
1. 10	9. 0	0. 23	·0992	2. 12	·01920	9. 40	62	63
	***	1. 15	·0998	3. 0	·01827	21. 40	50	53
1. 15	10. 30	1. 36	·0990	3. 43	·01675			
	***	2. 30	·0997	4. 46	·01429			
2. 37	8. 45	2. 53	·0994	5. 43	·01231			
5. 10	0. 0		***	6. 1	·01247			
9. 7	22. 1. 10	3. 30	·1004	6. 35	·01241			
9. 35	21. 58. 0		***	7. 16	·01287			
10. 25	22. 0. 0	4. 51	·0994	7. 58	·01338			
12. 2	2. 0	5. 30	·1002	8. 17	·01342			
12. 48	1. 0	5. 55	·0999	8. 52	·01350			
	***	6. 21	·1003	10. 14	·01422			
13. 53	5. 45	6. 37	·0997	11. 30	·01499			
14. 53	2. 10	7. 10	·1001	12. 13	·01543			
	***	7. 30	·0998	12. 58	·01579			
15. 45	2. 30	7. 45	·1002	13. 50	·01677			
	***	8. 15	·0998	14. 37	·01743			
16. 54	22. 0. 0	9. 0	·1000	15. 43	·01835			
	***	9. 20	·0997	16. 44	·02114			
20. 59	21. 58. 10	9. 40	·1002	17. 52	·02106			
22. 1	21. 59. 0	10. 24	·0998	19. 33	·02139			
23. 59	22. 6. 30		***	21. 0	·02119			
		11. 35	·1006		***			
		11. 55	·1002	22. 59	·01977			
		12. 15	·1006	23. 38	·01935			
		12. 25	·1002	23. 59	·01905			
			***					
		13. 25	·1000					
		13. 39	·1010					
		13. 47	·1005					
		15. 18	·1002					
			***					
		17. 45	·1012					
		18. 15	·1020					
			***					
		19. 0	·1022					
		22. 51	·0999					
		23. 45	·1000					
		23. 47	·0994					
		23. 59	·0998					
April 1		April 1		April 1		Apr. 1		
0. 7	22. 6. 0	0. 0	·0999	1. 12	·01844	1. 40	54	56
2. 8	10. 0	0. 14	·0992	1. 34	·01775	3. 40	58	62
5. 54	22. 2. 10	1. 5	·0998	2. 20	·01630	9. 40	64	65
6. 22	21. 58. 45		***	3. 49	·01261	23. 19	50	57
6. 42	22. 0. 15	2. 15	·1000	4. 47	·01320			
6. 55	21. 55. 15	2. 51	·0989	6. 5	·01304			
7. 32	21. 59. 15	3. 44	·0993	6. 12	·01287			
8. 44	22. 2. 20	4. 15	·1042	6. 20	·01304			
9. 30	22. 2. 15		***	6. 47	·01317			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
April 1		April 1		April 1				
h m	° ′ ″	h m		h m		h m	°	°
10. 6	21. 57. 10	4. 46	·1049	7. 0	·01300			
10. 28	59. 15	5. 40	·1050	7. 16	·01319			
11. 18	21. 58. 0		***	8. 6	·01335			
11. 45	22. 1. 35	6. 15	·1043	9. 24	·01330			
12. 2	22. 0. 0	6. 45	·1045	9. 45	·01355			
13. 4	21. 58. 0	7. 0	·1040	10. 9	·01335			
13. 23	21. 59. 35	7. 20	·1049	10. 42	·01374			
13. 33	21. 58. 50	7. 44	·1040	11. 44	·01405			
13. 58	22. 4. 30		***	12. 35	·01446			
14. 37	21. 59. 0	8. 13	·1044	13. 30	·01493			
15. 7	22. 2. 0	8. 26	·1040	13. 58	·01536			
15. 15	0. 45	9. 45	·1041	14. 50	·01574			
15. 51	22. 4. 10	10. 15	·1051	15. 52	·01692			
	***	10. 33	·1038	16. 16	·01737			
20. 51	21. 58. 35	10. 55	·1059	18. 16	·02026			
21. 47	21. 59. 0		***		(†)			
22. 54	22. 1. 40	12. 0	·1040	19. 57	·02136			
23. 40	5. 40	12. 10	·1043	23. 51	·02098			
		13. 13	·1043					
			***					
		13. 47	·1038					
			***					
		14. 15	·1052					
			***					
		14. 45	·1041					
		16. 0	·1040					
		16. 20	·1047					
		17. 0	·1040					
		18. 0	·1056					
		18. 32	·1054					
		19. 6	·1058					
		20. 30	·1059					
		20. 45	·1054					
		21. 8	·1055					
		21. 25	·1041					
		23. 6	·1038					
		23. 45	·1038					
		23. 53	·1033					
April 2		April 2		April 2		April 2		
0. 9	22. 6. 0	0. 15	·1024	0. 0	·02076	10. 17	·563	·566 ·5
0. 17	8. 30		***		***	21. 40	·554	·557 ·c
0. 25	6. 0	1. 40	·1024	2. 15	·01978			
	***		***	3. 12	·01858			
2. 13	11. 0	2. 14	·1034	3. 33	·01788			
	***		***	5. 24	·01482			
4. 53	4. 35	2. 40	·1027	6. 47	·01241			
5. 21	0. 25		***	7. 9	·01242			
6. 13	2. 30	4. 2	·1038	8. 12	·01285			
	***	4. 15	·1032	10. 13	·01301			
9. 15	22. 1. 0	4. 30	·1052	11. 30	·01342			
9. 37	21. 59. 0	4. 38	·1038	12. 50	·01406			
9. 52	21. 55. 10	4. 46	·1034	14. 59	·01649			
10. 20	22. 0. 30	5. 5	·1034	18. 0	·02134			
11. 33	1. 0	5. 27	·1024		(†)			
	***		***	20. 26	·02126			
13. 7	3. 0	6. 8	·1042	21. 5	·02138			
13. 50	1. 25	6. 40	·1038	23. 53	·02055			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
April 2		April 2						
h m	° ′ ″	h m		h m		h m	°	°
14. 56	22. 2. 25	6. 53	·1040					
15. 30	1. 0		***					
16. 15	2. 40	7. 19	·1032					
	***		***					
19. 22	22. 0. 30	8. 45	·1038					
	***	8. 59	·1042					
19. 35	21. 58. 0		***					
	***	9. 9	·1037					
20. 17	21. 59. 10		***					
20. 26	22. 4. 10	9. 55	·1041					
20. 48	3. 0		***					
20. 57	7. 30	10. 35	·1037					
	***	11. 30	·1038					
21. 23	5. 30	12. 10	·1036					
21. 44	2. 35		***					
22. 25	1. 30	14. 45	·1043					
23. 59	6. 0	15. 0	·1051					
		15. 6	·1046					
			***					
		17. 34	·1052					
			***					
		19. 45	·1060					
		20. 9	·1044					
		20. 46	·1032					
		21. 32	·1052					
		23. 25	·1040					
		23. 59	·1039					
April 3		April 3		April 3		April 3		
0. 7	22. 6. 15	0. 0	·1038	1. 36	·02048	1. 40	57	·559 ·5
1. 6	7. 10	0. 15	·1041	3. 11	·01959	3. 40	60	·562 ·c
1. 35	9. 30	0. 30	·1050		***	9. 40	61	·563 ·c
	***	1. 0	·1028	4. 10	·01683	21. 40	49	·551 ·5
2. 4	8. 45	1. 30	·1030	4. 35	·01574			
2. 49	10. 35		***	5. 4	·01513			
3. 21	9. 15	2. 29	·1026	5. 50	·01444			
3. 35	10. 30	2. 50	·1038	7. 15	·01515			
	***		***	8. 38	·01549			
4. 14	5. 30	3. 30	·1030	9. 20	·01559			
4. 37	8. 0	3. 44	·1017	11. 2	·01635			
4. 52	5. 30		***	12. 41	·01832			
5. 35	22. 5. 25	3. 48	·1024	14. 33	·01938			
7. 1	21. 59. 10	3. 52	·1018		·01927			
7. 27	22. 0. 0	3. 56	·1026	15. 52	·02118			
7. 55	21. 57. 20	4. 2	·1018	17. 10	·02092			
8. 5	21. 54. 0	4. 5	·1024	18. 59	·02107			
8. 42	22. 0. 30	4. 10	·1015	21. 35	·02052			
9. 10	0. 50		***	23. 57	·01959			
9. 28	0. 0	4. 25	·1012					
10. 21	22. 2. 40	4. 38	·1022					
11. 5	21. 59. 30	4. 40	·1018					
11. 55	22. 2. 0		***					
12. 13	1. 0	5. 18	·1036					
13. 34	2. 15		***					
14. 8	5. 45	5. 40	·1032					
	***		***					
16. 6	1. 0	6. 30	·1041					
	***	6. 50	·1036					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
April 3		April 3						
h m	° ′ ″	h m		h m		h m	°	°
16. 42	22. 2. 45	7. 15:	·1041					
	***	7. 35	·1032					
17. 31	1. 40	7. 55	·1032					
	***	8. 7	·1050					
18. 55	3. 0	8. 25	·1045					
20. 18	0. 0	8. 31	·1047					
22. 31	1. 0	9. 15	·1038					
23. 59	5. 30	10. 30	·1041					
		10. 50	·1047					
		11. 13	·1042					
		11. 45	·1052					
		12. 16	·1046					
			***					
		14. 30	·1054					
		14. 50	·1052					
			***					
		17. 14	·1053					
		19. 0	·1062					
			***					
		23. 59	·1034					
April 4		April 4		April 4		April 4		
0. 13	22. 6. 0	0. 0	·1036	0. 46	·01935	1. 40	54 ·5	55 ·5
1. 22	10. 0	0. 23	·1032	2. 19	·01813	3. 40	58 ·2	59 ·5
2. 28	9. 15		***	3. 40	·01574	9. 40	61 ·0	63 ·0
4. 35	4. 30	2. 0	·1032	5. 1	·01218	21. 40	53 ·2	55 ·2
6. 36	22. 1. 0	5. 40	·1043	6. 11	·01126			
8. 0	21. 59. 20	6. 10	·1048	7. 15	·01168			
8. 43	22. 2. 0	6. 16	·1044	8. 7	·01205			
13. 1	2. 35	6. 54	·1043	8. 51	·01216			
13. 8	4. 15	7. 17	·1034	9. 44	·01218			
14. 2	1. 0	8. 4	·1032	10. 50	·01261			
14. 22	2. 0	8. 46	·1043	11. 45	·01301			
14. 45	0. 30	9. 15	·1036	12. 50	·01372			
15. 10	2. 10		***	13. 32	·01425			
16. 0	1. 25	10. 29	·1042	14. 35	·01522			
17. 53	22. 3. 30	10. 52	·1038	15. 48	·01695			
20. 10	21. 59. 25	11. 30	·1046	16. 50	·01872			
21. 50	22. 0. 30	12. 27	·1043	18. 25	·02167			
23. 32	5. 10	13. 24	·1054		(†)			
23. 36	4. 0	14. 8:	·1047	21. 40	·02204*			
		15. 55	·1052					
		16. 48	·1048					
		17. 20	·1052					
		19. 30	·1053					
		20. 35	·1052					
		23. 50	·1032					
		23. 59	·1033					
April 5		April 5		April 5		April 5		
0. 0	22. 4. 30	0. 0	·1033	0. 38	·02032	1. 40	55 ·0	57 ·0
0. 43	8. 30	0. 35	·1036	1. 31	·01901	3. 40	58 ·0	60 ·0
	***	0. 45	·1041	2. 28	·01774	9. 40	63 ·0	65 ·5
1. 49	12. 25	1. 0	·1034	3. 58	·01485	21. 40	51 ·2	56 ·0
4. 3	5. 30	1. 15	·1035	5. 8	·01331			
5. 29	4. 30		***		***			
6. 14	2. 0	1. 46	·1033	6. 56	·01275			
6. 26	22. 3. 0	2. 10	·1024	7. 12	·01279			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
April 5		April 5		April 5				
h m	° ′ ″	h m		h m		h m	°	°
7. 5	21. 54. 15	3. 30	·1024	7. 36	·01359			
7. 30	21. 42. 0	4. 45:	·1044	8. 55	·01281			
7. 53	22. 0. 45		***	10. 50	·01335			
8. 25	21. 58. 45	6. 16	·1028	11. 45	·01358			
8. 48	22. 1. 30	6. 40	·1036	12. 30	·01379			
9. 52	2. 45	7. 4	·1028	13. 14	·01408			
11. 58	0. 15	7. 18	·1017	14. 41	·01615			
12. 35	3. 0	7. 38	·1065	16. 10	·01843			
13. 9	0. 55	8. 0	·1032	18. 12	·02136			
13. 40	3. 35	8. 45	·1040		(†)			
14. 30	2. 15	9. 22	·1037	21. 40	·02187*			
14. 50:	5. 20	9. 49	·1040	22. 25	·02098			
15. 28	1. 30	10. 4	·1033	23. 53	·01995			
16. 49	22. 2. 30	10. 49	·1040					
20. 48	21. 59. 35	11. 30:	·1040					
22. 2	22. 1. 30	12. 6	·1049					
23. 59	7. 20	12. 17	·1046					
		12. 30	·1052					
		13. 14	·1044					
			***					
		17. 40	·1056					
		20. 0	·1048					
		22. 20	·1051					
		23. 47	·1038					
		23. 59	·1041					
April 6		April 6		April 6		April 6		
0. 32	22. 8. 0	0. 0	·1041	1. 5	·01900	1. 40	56 ·0	58 ·5
1. 45:	10. 35	0. 10	·1043	3. 23:	·01670	3. 40	59 ·0	63 ·5
3. 35	6. 0	1. 30	·1044	5. 5	·01320	9. 40	64 ·5	67 ·5
7. 24	2. 0	2. 52	·1044	5. 27	·01280	21. 40	54 ·5	56 ·5
9. 13	22. 2. 0	3 38:	·1034	7. 5	·01292			
9. 37	21. 56. 30	4. 35	·1041	8. 7:	·01373			
10. 0	22. 0. 0	7. 5	·1042	9. 28	·01390			
10. 45	21. 54. 30		***	12. 45	·01505			
11. 8	22. 2. 30	10. 14	·1038	15. 38:	·01715			
11. 29	22. 0. 0	10. 36	·1056	18. 7	·02135			
13. 8	21. 58. 30	11. 15	·1042		(†)			
	***	11. 20	·1044	21. 40	·02146*			
14. 13	22. 3. 30	11. 34	·1040	22. 17	·02038			
15. 7	21. 57. 45	12. 25	·1051	23. 59	·01910			
16. 11	22. 0. 30	13. 25	·1036					
19. 32	2. 0	14. 0	·1044					
20. 20	8. 0	14. 15	·1043					
21. 16	0. 50	14. 35	·1049					
22. 13	0. 30	15. 45:	·1042					
23. 59	6. 0	18. 0	·1051					
		19. 10	·1052					
		19. 30	·1049					
		20. 10	·1049					
		20. 30	·1062					
		21. 15	·1054					
		22. 0	·1056					
		22. 45	·1048					
		23. 0	·1051					
		23. 15	·1056					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
April 7	° ′ ″	April 7		April 7		April 7	°	°
h m		h m		h m		h m		
0. 50	22. 7. 30	0. 55	·1046	1. 5	·01830	1. 40	57 ·0	58 ·5
1. 55	8. 0	1. 8	·1042	3. 0:	·01660	3. 40	59 ·0	63 ·0
5. 27	2. 15	2. 26	·1044	4. 4	·01342	9. 40	64 ·0	65 ·0
12. 23	3. 0		***	5. 45:	·01252	21. 40	55 ·5	58 ·0
12. 52	4. 15	3. 25	·1049	6. 47	·01248			
13. 17	2. 35	12. 36	·1047	10. 0:	·01260			
	***		***	12. 50	·01400			
16. 20	2. 25	15. 43	·1052	15. 3:	·01580			
16. 55:	8. 20	16. 20:	·1049	17. 13	·01818			
17. 36	2. 20	16. 45:	·1044	19. 36	·01989			
18. 45	4. 15	17. 19	·1063	21. 25	·01975			
	***	17. 40	·1062	23. 59	·01348			
20. 24	1. 30	18. 10:	·1056					
	***	18. 55	·1060					
21. 22	1. 0	19. 17	·1056					
23. 12	5. 30	19. 46	·1059					
23. 50	5. 45		***					
23. 59	6. 30	21. 5	·1044					
		21. 40	·1043					
		22. 14	·1036					
		22. 23	·1037					
		23. 16	·1026					
		23. 59	·1028					
April 8		April 8		April 8		April 8		
0. 7	22. 7. 30	0. 0	·1028	0. 27	·01860	1. 40	59 ·0	62 ·0
0. 52	9. 25	0. 10	·1031	3. 52	·01480	3. 40	63 ·0	65 ·5
6. 17	1. 0	0. 55	·1035		{·01307	9. 40	66 ·0	68 ·0
12. 6	2. 50	1. 9	·1026	4. 47	{·01333	22. 58	56 ·0	58 ·4
12. 35	1. 0	1. 35	·1025	6. 28:	·01300			
12. 55	1. 35	2. 15	·1035	8. 0	·01342			
13. 18	0. 30		***	9. 32	·01390			
13. 38	2. 0	3. 39	·1031	10. 10	·01420			
14. 0	1. 20	5. 15	·1040	11. 58	·01557			
14. 43	4. 45	6. 8	·1040	14. 35:	·01782			
15. 17	2. 0	8. 20	·1034	16. 48	·02120			
18. 17	22. 2. 30	8. 55	·1039		(†)			
20. 53	21. 58. 0	12. 5	·1035	22. 58	·02146			
23. 1	22. 1. 0	12. 30	·1041					
23. 55	6. 0	12. 36	·1039					
		13. 25	·1047					
		14. 17	·1040					
		14. 40	·1048					
		15. 45	·1045					
		17. 50	·1055					
		20. 10	·1055					
		23. 10	·1030					
		23·45	·1030					
		23. 59	·1032					
April 9		April 9		April 9		April 9		
0. 4	22. 7. 15	0. 0	·1032	0. 0	·02055	10. 50	64 ·0	65 ·5
0. 35	9. 30	0. 30	·1031	1. 50:	·02000	21. 40	52 ·5	54 ·8
2. 17	11. 30	0. 46	·1028	3. 20	·01880			
4. 8	5. 40	1. 40	·1033	4. 30:	·01639			
5. 35	3. 0	1. 55	·1030	6. 5	·01417			
10. 5	3. 0	2. 14	·1034	6. 52:	·01386			
12. 20	1. 0	3. 0	·1027	7. 46	·01430			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
April 9	° ′ ″	April 9		April 9				
h m		h m		h m		h m		
	***	3. 55	·1035	8. 32:	·01470			
13. 0	22. 1. 40	5. 45	·1032	9. 10	·01482			
13. 20	21. 57. 15	6. 30	·1042	11. 32	·01580			
	***	7. 40	·1038	11. 55	·01600			
13. 35	22. 5. 0	10. 10	·1042	12. 48	·01710			
15. 25	21. 59. 40	11. 46	·1052	13. 34:	·01790			
	***	11. 55	·1060	14. 10	·01900			
15. 36	22. 0. 30	12. 4	·1044	15. 40	{·02122			
16. 7	21. 57. 30	12. 14	·1047		{·02105			
16. 53	21. 59. 0	12. 20	·1042	18. 58	·02071			
18. 4	22. 3. 45	12. 30	·1049	19. 5	·02075			
	***		***	20. 42:	·02020			
19. 3	0. 15	13. 29	·1051	22. 0	·02020			
	***	14. 15	·1041	23. 8	·01970			
21. 45	0. 0	15. 27	·1054	23. 59	·01917			
23. 44	6. 30	16. 15:	·1058					
23. 59	8. 30	17. 15	·1050					
		18. 50	·1064					
			***					
		19. 35	·1063					
		22. 32	·1036					
		23. 38	·1034					
		23. 53	·1042					
		23. 59	·1038					
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 7	22. 9. 0	0. 5	·1037	1. 23	·01832	1. 40	54 ·5	57 ·5
1. 29	11. 0	0. 50	·1047	2. 46:	·01718	3. 40	56 ·5	58 ·0
2. 39	9. 30	1. 8	·1044	3. 48	·01570	9. 40	59 ·0	62 ·3
3. 45	6. 0	1. 15	·1046	5. 23:	·01440	21. 50	49 ·0	53 ·0
6. 57	1. 0	1. 30	·1046	7. 10	·01360			
8. 35	4. 10	1. 37	·1051	8. 3	·01380			
	***	1. 53	·1044	8. 52	·01358			
11. 50	3. 0	2. 8	·1050	10. 29:	·01369			
11. 52	5. 30	2. 22	·1048	11. 36	·01445			
12. 44	0. 0	2. 31	·1054	11. 38	·01465			
13. 5	22. 21. 0	2. 55	·1047	11. 47	·01445			
13. 47	21. 40. 0	3. 30	·1050	11. 54	·01460			
13. 49	41. 50	3. 45	·1046	12. 27	·01465			
13. 54	37. 0	4. 30	·1054	12. 45	·01475			
	***		***	13. 30	·01238			
14. 12	42. 0	5. 2	·1045	13. 35	·01245			
14. 31	38. 35	5. 23	·1047	13. 50	·01330			
14. 37	39. 30	5. 37	·1053	13. 53	·01315			
14. 44	33. 35	6. 8	·1044	13. 59	·01360			
15. 29	59. 40	6. 30	·1048	14. 28	·01565			
15. 41	55. 30	6. 43	·1047	14. 37	·01578			
15. 47	56. 0	7. 0	·1054	14. 43	·01590			
16. 12	44. 35	7. 27	·1043	14. 52	·01559			
16. 18	43. 0	7. 32	·1048	14. 57	·01553			
16. 28	46. 30	7. 45	·1044	15. 8:	·01629			
16. 37	48. 30		***	15. 29	·01530			
16. 46	45. 0	8. 40	·1055	15. 36	·01626			
16. 53	44. 0	8. 55	·1046	15. 59	·01485			
17. 7	27. 0	9. 30	·1057	16. 5	·01479			
17. 17	29. 30	9. 35	·1053	16. 15	·01430			
17. 47	21. 44. 15	9. 53	·1057	16. 23	·01430			
18. 17	22. 16. 35	10. 1	·1054	16. 40	·01355			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 10		Apr. 10		Apr. 10				
h m	° ′ ″	h m		h m		h m	°	°
18. 26	22. 12. 30	10. 40	·1056	16. 46	·01369			
18. 30	22. 18. 30	10. 50	·1065	16. 50:	·01334			
18. 49	21. 48. 30	11. 10	·1062	17. 5	·01375			
18. 56	52. 15	11. 16	·1066	17. 12	·01355			
19. 42	48. 0	11. 30	·1062	17. 33	·01462			
19. 50	53. 0	11. 34	·1066	17. 47	·01358			
	***	11. 40	·1058	17. 52	·01330			
20. 37	57. 0	11. 53	·1094	17. 56	·01370			
20. 43	21. 53. 0	12. 0	·1078	18. 3	·01365			
20. 51	22. 3. 25	12. 8	·1083	18. 7	·01378			
21. 0	21. 59. 10	12. 15	·1077	18. 12	·01361			
21. 8	22. 2. 30	12. 32	·1082	18. 20	·01387			
21. 15	1. 0	12. 44	·1066	18. 38	·01330			
	***		***	18. 42	·01400			
21. 48	10. 0	12. 53	·1066	19. 0	·01347			
	***	13. 6	·1078	19. 22	·01522			
22. 14	9. 0	13. 32	·1000	19. 45	·01650			
	***	13. 45	·1028	20. 12	·01710			
22. 28	19. 0	13. 50	·1006	20. 22:	·01735			
	***	13. 54	·1016	20. 33	·01705			
22. 45	14. 0	13. 59	·1009		***			
	***		***	20. 55	·01752			
22. 57	21. 0	14. 36	·1056		***			
	***		***	22. 10	·01737			
23. 4	17. 0	15. 16	·1014		***			
	***	15. 35	·1066	22. 40	·01732			
23. 13	21. 0	15. 46	·1060		***			
	***	15. 55	·1042	22. 53	·01765			
23. 21	18. 0	16. 10	·1038		***			
	***	16. 17	·1048	23. 59	·01850			
23. 25	21. 0	17. 0	·0950					
	***	17. 25	·1048					
23. 40	13. 30	17. 42	·0990					
	***		***					
23. 59	17. 10	18. 5	·1033					
	***	18. 9	·1024					
		18. 15	·1033					
		18. 39	·0987					
		18. 44	·1008					
		18. 59	·0978					
		19. 8	·0998					
		19. 15	·0982					
		19. 18	·0986					
			***					
		19. 27	·0974					
			***					
		19. 53	·0998					
		20. 5	·0992					
		20. 21	·1000					
		20. 31	·0978					
		20. 42	·1018					
		20. 49	·1012					
		20. 59	·1019					
		21. 5	·1010					
		21. 15	·1026					
			***					
		22. 27	·0916					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Apr. 10						
h m	° ′ ″	h m		h m		h m	°	°
		23. 12	·0924					
		23. 25	·0916					
			***					
		23. 59	·0985					
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 13	22. 20. 0	0. 15	·1016	1. 8	·01732	1. 40	54	57
0. 31	27. 30	0. 20	·1006	2. 28	·01603	3. 40	59	63
0. 45	22. 30	0. 27	·1018	3. 7	·01520	9. 40	64	67
0. 55	24. 35	0. 30	·1026	3. 25	·01450	21. 40	52	54
1. 12	19. 0		***	3. 32	·01431			
	***	1. 50	·1027	3. 52	·01338			
1. 54	18. 0	2. 5	·1055	4. 3	·01320			
	***	2. 28	·1010	4. 33	·01340			
2. 9	23. 10	2. 45	·1014	5. 25	·01375			
	***	2. 55	·1006	6. 20	·01385			
3. 3	10. 0		***	6. 38	·01375			
	***	3. 15	·1024	6. 53:	·01385			
3. 18	13. 0	3. 36	·1013	7. 13	·01381			
	***	3. 49	·1014	7. 57	·01409			
4. 9	10. 45	3. 55	·1002	8. 28	·01450			
4. 46	11. 10	4. 3	·1010	8. 52:	·01442			
5. 12	8. 20		***	9. 32	·01460			
6. 48	3. 40	4. 31	·1010	10. 18	·01471			
8. 0	22. 3. 20		***	10. 32	·01345			
8. 20	21. 49. 20	5. 28	·1000	10. 50	·01420			
8. 43	59. 10	5. 36	·1008	11. 0	·01465			
9. 11	21. 53. 35	6. 0	·1008	11. 28	·01482			
9. 43	22. 0. 40	6. 30	·1019	11. 53	·01529			
9. 56	21. 58. 10	6. 41	·1013	12. 6	·01555			
10. 19	22. 0. 30	7. 0	·1022	12. 20	·01555			
10. 24	19. 30	7. 13	·1019	12. 25	·01557			
10. 44	4. 0	7. 40	·1024	13. 5:	·01628			
11. 53	7. 35	8. 16	·1008	13. 42	·01722			
12. 20	6. 30	8. 29	·1028	14. 23:	·01763			
12. 53	2. 0	8. 45	·1022	14. 57	·01883			
13. 29	2. 30	8. 52	·1024	15. 29	·02000			
13. 43	12. 0	9. 7	·1021	16. 7	·02115			
13. 55	14. 10	9. 15	·1026		(†)			
14. 31	3. 0	9. 26	·1025	20. 52	·02120			
14. 50	1. 30	9. 35	·1034	21. 58	·02063			
15. 25	5. 20	9. 50	·1024	22. 20	·02045			
16. 37	2. 0	10. 45	·1026	22. 42	·02025			
18. 5	22. 2. 30	10. 56	·1017	23. 59	·01974			
	***	11. 5	·1030					
20. 7	21. 59. 10	11. 17	·1023					
	***		***					
21. 24	21. 59. 15	11. 47	·1033					
22. 28	22. 2. 0	11. 59	·1028					
	***	12. 5	·1033					
22. 47	4. 35	12. 17	·1026					
22. 53	4. 0	12. 34	·1037					
23. 53	7. 35	13. 33	·1034					
		14. 5	·1024					
		14. 38:	·1040					
		15. 23	·1031					
		16. 5	·1046					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 11. Vertical Force Magnet. The spot of light was off the sheet from $16^h.\ 7^m.$ to $20^h.\ 52^m$, and no eye observation was made between those times.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 11 h m		h m		h m	°	°
		17. 3	·1043 ***					
		18. 55	·1042					
		21. 0	·1040					
		23. 0	·1024					
		23. 50	·1034					
		23. 59	·1032					
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 4	22. 7. 20	0. 0	·1031	1. 5	·01600	1. 40	55 · 0	58 · 0
2. 2	6. 35	0. 36	·1025	1. 30	·01576	3. 40	59 · 0	63 · 0
5. 33	2. 0	1. 30	·1032	2. 7	·01519	9. 40	62 · 0	64 · 0
9. 13	1. 30	3. 0	·1021	2. 25	·01472	21. 40	56 · 0	58 · 0
10. 8	2. 10	7. 10	·1034	3. 5:	·01540			
10. 35	1. 40 ***	10. 20	·1037	3. 45	·01270			
		10. 30	·1042	5. 52:	·01235			
12. 1	3. 30	11. 5	·1039	7. 33	·01282			
12. 42	1. 0	11. 30:	·1051	8. 16:	·01330			
13. 28	2. 40	11. 50	·1046	9. 5	·01320			
18. 40	22. 1. 10 ***	12. 0	·1051	10. 8:	·01330			
		13. 13	·1038	12. 17	·01385			
20. 52	21. 59. 30	13. 38	·1043	14. 27:	·01525			
21. 40	22. 3. 0	16. 10	·1046	16. 52	·01782			
23. 59	6. 40	19. 0	·1051	20. 38	·01920			
		22. 0	·1021	23. 59	·01840			
		23. 59	·1030					
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 28	22. 7. 0	0. 0	·1028 ***	0. 28	·01810	1. 40	59 · 0	63 · 0
2. 1	9. 0 ***			3. 12:	·01520	3. 40	63 · 0	64 · 5
		0. 50:	·1034 ***	4. 27	·01335	9. 40	64 · 0	65 · 8
6. 1	2. 30 ***			4. 57:	·01315 ***	21. 40	52 · 0	54 · 0
		1. 45	·1030					
8. 7	3. 20 ***	1. 54	·1034	7. 25	·01440			
		2. 25	·1027 ***	8. 25:	·01495			
9. 0	1. 30			9. 16	·01514			
12. 25	1. 13	3. 30	·1036 ***	11. 7:	·01625			
12. 52	4. 10			12. 26	·01760			
12. 58	1. 45	4. 2	·1028	13. 37:	·01880			
13. 10	22. 3. 10 ***	4. 21	·1036	15. 5	·02120 (†)			
		4. 30	·1030					
19. 46	21. 58. 0 ***	4. 32	·1034	19. 36	·02115			
		4. 43	·1028 ***	21. 55	·02060			
21. 45	21. 59. 45 ***			23. 59	·01973			
		5. 46	·1036					
23. 59	22. 5. 15 ***	5. 53	·1030					
		5. 58	·1035					
		6. 8	·1025					
		6. 23	·1038					
		6. 30	·1033					
		6. 40	·1050					
		6. 54	·1026					
		7. 0	·1038					
		7. 25	·1023					
		8. 10	·1027					
		8. 20	·1025					
		9. 3	·1036					
		9. 17	·1030 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 13 h m		h m		h m	°	°
		12. 53	·1050					
		12. 59	·1040 ***					
		14. 20	·1050					
		19. 9	·1064					
		19. 30:	·1060					
		19. 58	·1064					
		21. 38	·1050					
		23. 15	·1044					
		23. 30	·1052 ***					
		23. 59	·1047					
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 14	22. 6. 0	0. 0	·1048	0. 15	·01965	8. 18	64 · 0	66 · 0
1. 51	9. 45	1. 23	·1052	2. 7	·01875	21. 40	53 · 0	55 · 0
2. 23	9. 30	1. 35	·1058 ***	4. 27	·01475			
2. 32	10. 45			5. 31	·01430			
3. 7	7. 25	2. 18	·1053	6. 22	·01410			
3. 23	9. 0 ***	2. 29	·1064 ***	7. 36	·01508			
				8. 50	·01560			
4. 27	8. 0	3. 0	·1046	9. 8	·01689			
5. 26	11. 30	3. 16	·1060	9. 40	·01485			
6. 0	8. 0	3. 23	·1052	9. 52	·01540			
6. 7	6. 30	3. 40	·1058	10. 22	·01585			
6. 25	8. 40	3. 50	·1053	10. 45	·01513			
7. 2	8. 0	4. 6	·1055	11. 10	·01540			
7. 28	1. 0	5. 20	·1050	11. 28	·01495			
7. 38	7. 0	5. 30	·1042	11. 47	·01563			
7. 43	4. 25	5. 40	·1050	12. 37	·01587			
7. 45	6. 30	5. 55	·1045	16. 20	·02110 (†)			
7. 48	5. 15	6. 5	·1050					
7. 56	10. 15	6. 35	·1036	21. 0	·02120			
8. 7	7. 0	6. 53	·1042 ***	22. 58:	·02053			
8. 25	22. 13. 30			23. 50	·02062			
9. 10	21. 55. 0	7. 20	·1036	23. 59	·02045			
9. 15	56. 15	7. 37	·1054					
9. 29	50. 0	7. 45	·1042					
9. 37	51. 30	7. 55	·1038					
9. 50	48. 35	8. 3	·1042					
9. 56	45. 30	8. 12	·1040					
10. 2	47. 10	8. 21	·1043					
10. 29	58. 0	9. 0	·0996 ***					
11. 3	43. 30							
11. 38	55. 20	9. 14	·1013					
11. 58	44. 0	9. 20	·1006					
12. 12	54. 10	9. 30	·1015					
12. 20	21. 52. 40	9. 45	·1004					
12. 48	22. 1. 0	9. 55	·0977					
13. 15	21. 59. 30 ***	10. 10	·1013					
		10. 25	·1015					
14. 40	22. 3. 30 ***	10. 38	·0999 ***					
15. 37	22. 1. 15 ***	11. 10	·1004					
		11. 30	·1034					
18. 45	21. 59. 50 ***	11. 44	·1022					
		11. 53	·1030					
19. 42	56. 30	12. 10	·1042					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

April 13. Vertical Force Magnet. The spot of light was off the sheet from $15^h.\ 3^m.$ to $19^h.\ 35^m.$

April 14. There was no register of vertical force between $16^h.\ 20^m.$ and $21^h.\ 0^m.$

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 14		Apr. 14						
h m	° ′ ″	h m		h m		h m	°	°
19. 50	21. 58. 45	12. 24	·1052					
21. 5	56. 40	13. 10:	·1028					
21. 32	59. 50	14. 0	·1032					
21. 50	21. 59. 30	14. 16	·1025					
23. 59	22. 8. 30		***					
		19. 53	·1049					
		21. 2	·1042					
		21. 11	·1046					
		21. 14	·1038					
		22. 10	·1038					
		23. 0:	·1027					
		23. 59	·1027					
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 12	22. 9. 50	0. 0	·1028	0. 52	·02048	1. 40	56 ·5	58 ·5
1. 10	13. 30	0. 40	·1032	1. 27	·02025	3. 40	61 ·0	66 ·0
2. 25	12. 0	1. 30	·1034	1. 53	·01945	9. 40	66 ·0	68 ·0
3. 2	13. 10		***	3. 5:	·01758	23. 32	54 ·0	56 ·5
	***	2. 4	·1028	3. 57	·01480			
4. 5	9. 30	2. 50:	·1049		***			
	***	3. 14	·1038	5. 34:	·01540			
4. 58	11. 0		***	7. 15	·01523			
	***	4. 0	·1038	8. 12	·01569			
5. 53	5. 0	4. 10	·1045	9. 22:	·01572			
6. 32	5. 0	4. 18	·1043	11. 13	·01650			
6. 55	1. 30	4. 30	·1052	12. 8	·01700			
7. 5	22. 2. 0	5. 7	·1014	14. 50	·02120			
7. 31	21. 54. 15	5. 30:	·1022		(†)			
8. 8	22. 0. 0	5. 53	·1023	19. 50	·02100			
10. 0	21. 59. 20	6. 15:	·1034	21. 7	·02073			
10. 39	22. 1. 15	6. 47	·1033	22. 20:	·02042			
11. 8	21. 59. 10	7. 0	·1043	23. 38	·02033			
11. 14	58. 40	7. 17	·1031	23. 59	·02010			
11. 36	53. 15	7. 34	·1048					
12. 0	56. 40	8. 4	·1038					
	***		***					
12. 44	21. 56. 15	8. 53	·1037					
	***	9. 8	·1041					
14. 8	22. 2. 0	9. 44	·1038					
	***	10. 23	·1045					
21. 17	21. 59. 15	10. 50	·1041					
23. 59	22. 5. 50	11. 14	·1049					
		11. 25	·1044					
		11. 36	·1047					
		12. 8	·1039					
		12. 24	·1054					
			***					
		12. 42	·1049					
			***					
		13. 5	·1052					
		13. 25	·1050					
		19. 15	·1067					
		21. 0	·1064					
		23. 23	·1051					
		23. 59	·1052					
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
0. 50	22. 6. 0	0. 0	·1052	0. 37	·01980	9. 40	64 ·5	67 ·4
1. 40	6. 25	1. 10	·1058	3. 3:	·01855	21. 40	55 ·5	58 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
h m	° ′ ″	h m		h m		h m	°	°
6. 35	22. 1. 0	2. 0	·1058	4. 52	·01568			
9. 22	2. 0	5. 37	·1051	5. 34:	·01487			
13. 52	2. 0	7. 17	·1060	6. 47	·01425			
14. 7	3. 45	8. 6	·1056	7. 20:	·01401			
14. 43	0. 30	12. 0	·1053	8. 30	·01445			
	***	13. 30	·1057	10. 38:	·01433			
19. 20	22. 2. 15	14. 23	·1066	12. 23	·01461			
	***	15. 0	·1063	14. 27:	·01608			
20. 25	21. 59. 30	18. 0	·1072	16. 32	·01875			
21. 27	22. 1. 0	18. 45	·1067	18. 21	·02000			
21. 55	0. 45	20. 45:	·1071	19. 28	·02060			
22. 59	4. 30	21. 23	·1060	20. 55	·02033			
23. 59	5. 30	22. 20	·1056	22. 30	·02021			
		23. 10	·1042	23. 59	·01922			
			***					
		23. 59	·1048					
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 23	22. 6. 0	0. 0	·1048	0. 41	·01860	1. 40	59 ·0	61 ·5
1. 40	7. 35	0. 8	·1045	2. 49	·01712	3. 40	61 ·5	63 ·0
6. 0	3. 30	0. 35	·1046	4. 7	·01573	9. 40	60 ·0	63 ·0
9. 35	3. 0	4. 53	·1059	5. 7	·01495	21. 40	51 ·0	54 ·0
10. 11	1. 30	6. 15	·1056	6. 46	·01475			
10. 53	3. 0	6. 53:	·1062	7. 18	·01488			
14. 0	2. 30	8. 4	·1059	8. 12:	·01562			
14. 17:	7. 25	13. 5	·1074	9. 4	·01554			
15. 10	1. 0	14. 15:	·1072	10. 14:	·01585			
	***	14. 38	·1081	12. 27	·01804			
15. 55	2. 10	15. 30	·1075	14. 7	·01975			
16. 40	0. 30	16. 30	·1081	14. 40	·01970			
19. 22	1. 10	20. 0	·1084	15. 35	·02045			
19. 55	2. 30	23. 59	·1062	17. 33	·02020			
21. 22	2. 0			19. 37	·02015			
23. 59	6. 30			21. 30	·01925			
				23. 59	·01805			
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
0. 8	22. 6. 45	0. 13	·1057	1. 30	·01675	1. 40	58 ·5	60 ·0
1. 37	9. 0	1. 33	·1066	3. 37	·01260	3. 40	63 ·0	65 ·3
3. 43	5. 10	2. 8	·1057	4. 2	·01285	9. 40	66 ·5	68 ·5
6. 2	3. 0	3. 45	·1052	5. 5	·01288	21. 40	57 ·0	59 ·0
10. 23	3. 0	5. 5	·1052	6. 46:	·01256			
10. 54	21. 59. 20	5. 45	·1056	8. 0	·01316			
11. 28	22. 1. 30	12. 25	·1057	8. 37:	·01342			
13. 58	22. 1. 0	12. 35	·1073	9. 37	·01305			
	***	12. 47	·1066	9. 57	·01360			
17. 7	21. 58. 0		***	13. 7	·01528			
	***	16. 23	·1080	14. 0	·01588			
19. 10	22. 0. 15	17. 30	·1077	16. 34	·01888			
19. 28	21. 57. 30	18. 23	·1067	17. 20	·01951			
20. 0	22. 2. 0	18. 53	·1074	18. 8	·02000			
	***	19. 30	·1067	19. 12	·01955			
21. 1	4. 30		***	20. 3	·01982			
21. 33	3. 0	20. 46	·1078	22. 16	·01992			
	***	23. 0:	·1046	23. 1:	·01982			
22. 7	5. 10	23. 59	·1056	23. 32	·01925			
22. 32	4. 30							
23. 59	9. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 15. Vertical Force Magnet. The spot of light was off the sheet from 14ʰ. 50ᵐ. to 19ʰ. 50ᵐ.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
h m	° ′ ″	h m		h m		h m		
0. 7	22. 11. 0	0. 0	·1057	0. 0	·01927	1. 40	62 ·3	65 ·8
1. 13	9. 15	0. 49	·1044	1. 0:	·01840	3. 40	67 ·0	69 ·0
2. 7	12. 30		***	1. 50	·01683	9. 40	69 ·0	71 ·0
	***	1. 30	·1054	3. 12	·01468	21. 40	59 ·0	62 ·0
2. 29	11. 30		***	4. 22	·01410			
	***	2. 35	·1046	5. 20	·01385			
3. 0	13. 0	2. 45	·1050	6. 1	·01440			
3. 17	10. 0	2. 52	·1048	6. 22	·01520			
3. 30	11. 15	3. 4	·1058	6. 42	·01594			
3. 51	9. 15	3. 23	·1044	6. 47	·01600			
4. 0	10. 0		***	7. 15	·01555			
4. 13	5. 45	3. 53	·1037	7. 40	·01594			
4. 40	8. 0	4. 5	·1046	8. 52:	·01679			
5. 43	7. 30	4. 20	·1033	9. 40	·01660			
6. 1	4. 30	5. 0	·1068	10. 6	·01650			
6. 9	22. 8. 0	5. 19	·1058	10. 31	·01704			
6. 48	21. 44. 20	5. 45	·1060	10. 50	·01680			
7. 4	51. 30	6. 5	·1036	11. 7	·01700			
7. 13	50. 0	6. 20	·1067	11. 16	·01692			
7. 22	52. 0	6. 37	·1050	12. 3	·01725			
7. 27	51. 0		***	13. 45	·01920			
7. 38	57. 0	7. 0	·1060	15. 7	·02125			
8. 2	58. 30	7. 30	·1028	16. 46:	·02070			
8. 21	57. 30	7. 39	·1037	18. 4	·02094			
8. 32	58. 0	8. 15	·1018	20. 46	·02035			
8. 53	49. 0	8. 43	·1021	21. 50	·02055			
9. 4	49. 0	8. 52	·1018	23. 27	·01960			
9. 22	21. 59. 20	9. 15	·1037					
9. 52	22. 3. 30	9. 29	·1016					
10. 24	21. 53. 20	9. 34	·1022					
10. 43	22. 2. 0	9. 42	·1020					
10. 50	21. 55. 0	9. 58	·1030					
11. 14	22. 1. 30	10. 9	·1020					
11. 20	0. 15	10. 35	·1056					
11. 38	22. 3. 10	10. 53	·1038					
11. 59	21. 55. 30	11. 12	·1057					
12. 13	54. 50	11. 55	·1022					
12. 37	59. 0	12. 24	·1040					
13. 23	56. 30	12. 45	·1033					
13. 46	56. 40		***					
14. 7	59. 15	14. 5	·1037					
14. 21	21. 57. 15	14. 40	·1030					
14. 46	22. 5. 35		***					
15. 28	4. 45	16. 8:	·1053					
	***	17. 33	·1040					
16. 9	22. 0. 35	19. 8:	·1058					
	***	20. 23	·1054					
16. 51	21. 59. 20	20. 50:	·1054					
	***	21. 30	·1043					
18. 28	22. 1. 30	22. 45	·1046					
19. 20	21. 59. 30	23. 45	·1052					
22. 20	22. 1. 0	23. 51	·1056					
23. 17	3. 30	23. 59	·1027					
23. 34	3. 0							
23. 59	6. 0							
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 14	22. 6. 0	0. 0	·1027	0. 10	·01910	1. 40	64 ·8	67 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
h m	° ′ ″	h m		h m		h m		
0. 49	22. 6. 30	0. 40	·1020	0. 10	·01810	3. 40	68 ·0	72 ·3
3. 2	5. 30	0. 45	·1022	1. 53	·01685	9. 40	69 ·5	72 ·5
5. 34	22. 2. 0	2. 10	·0998	3. 35	·01672	21. 40	63 ·5	65 ·0
6. 14	21. 48. 25	3. 22	·0988	4. 32	·01638			
7. 2	48. 20	3. 55	·0997	5. 22	·01635			
7. 31	51. 30	4. 8	·0994	6. 13	·01590			
7. 43	49. 30	4. 18	·0997	6. 37	·01610			
8. 19	58. 20	4. 36	·0988	6. 50	·01665			
8. 27	56. 35	4. 47	·0997	7. 39:	·01670			
8. 38	59. 0	5. 0	·0995	8. 10	·01725			
9. 8:	21. 57. 10	5. 15	·1003	9. 40	·01718			
9. 39	22. 5. 30	5. 28	·0994	9. 48	·01680			
9. 50	21. 57. 30	6. 0	·0998	11. 37	·01723			
10. 2	58. 45	6. 10	·0986	12. 53	·01725			
10. 13	54. 0	6. 38	·1013	13. 13	·01683			
10. 31	51. 0	7. 7	·0996	14. 31	·01861			
10. 48	53. 30	7. 18	·0996	15. 17	·01921			
	***		***	17. 10	·02125			
11. 25	51. 50	7. 55	·0980		(†)			
11. 44	55. 30	8. 5	·0984	21. 22	·02125			
12. 14	54. 15	8. 17	·0978	22. 47:	·02017			
12. 23	21. 52. 10	8. 33	·0987	23. 55	·01975			
12. 53	22. 11. 0	8. 52	·0980					
13. 50	21. 49. 25	9. 10	·0982					
14. 16	56. 0	9. 33	·1002					
14. 23	21. 55. 30	9. 45	·0996					
14. 52:	22. 8. 0	9. 57	·1004					
15. 44	21. 58. 30	10. 13	·0994					
16. 55	57. 0	10. 18	·0999					
21. 18	21. 59. 0	10. 30	·0992					
23. 7	22. 6. 0	10. 45	·0993					
23. 59	7. 50	11. 10:	·0990					
		11. 46	·0998					
		12. 20	·0986					
		12. 30	·0960					
		12. 50	·0996					
		13. 3	·0988					
		13. 24	·0988					
		13. 55	·1014					
		14. 40	·0978					
		15. 25	·1004					
		15. 40	·1000					
			***					
		16. 23	·1006					
		17. 27	·1010					
		18. 18	·1004					
		18. 34	·1007					
		19. 23	·1004					
		20. 16	·1006					
		20. 38	·1001					
		22. 10	·1006					
		23. 0	·0994					
		23. 59	·0996					
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 11	22. 6. 0	0. 0	·0996	0. 0	·01975	1. 40	65 ·2	68 ·0
0. 46	4. 30	0. 6	·1000	0. 30:	·01965	3. 40	67 ·2	71 ·0
2. 13	22. 4. 30	0. 38	·0998	1. 7	·01984	9. 40	69 ·0	71 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

April 20. Vertical Force Magnet. The spot of light was off the sheet from $17^h.\ 10^m.$ to $21^h.\ 22^m.$; and on April 21. from $16^h.\ 40^m.$ to $19^h.\ 29^m.$

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
h m	° ′ ″	h m		h m		h m	°	°
4. 42	21. 59. 20	1. 35	·1010	3. 0	·01763	21. 40	60 ·2	63 ·0
6. 13	57. 40	3. 47	·1008	6. 20:	·01685			
6. 38	53. 50		***	8. 46	·01700			
7. 49	49. 0	5. 30	·1018	9. 52	·01708			
8. 24	57. 30	6. 25	·1004	10. 40	·01672			
9. 2	59. 30	6. 52	·1020	11. 42	·01792			
9. 41	21. 56. 25	8. 30	·1005	12. 0	·01810			
10. 5	22. 3. 40	9. 15	·1011	13. 12	·01865			
10. 21	21. 56. 30	9. 38	·1006	14. 0	·01938			
10. 40	59. 40	10. 0	·1022	14. 34	·01919			
11. 1	56. 0	10. 15	·1010	15. 23	·02045			
11. 18	55. 0	10. 28	·1036	16. 0	·02050			
11. 43	56. 15	10. 55	·1011		·02065			
12. 28	54. 0	11. 14	·1006	16. 40	·02120			
12. 46	56. 30	11. 45	·1016		(†)			
13. 0	57. 0	12. 4	·1014	19. 29	·02120			
13. 17	53. 15	12. 29	·1008	22. 8:	·02000			
13. 28	53. 30	13. 5	·1031	23. 59	·01950			
13. 47	55. 30	13. 15	·1026					
14. 0	55. 30	13. 23	·1031					
14. 31	44. 10	13. 38	·1023					
15. 9	58. 30	14. 0	·1027					
15. 32	59. 45	14. 16	·1022					
16. 7	56. 40	14. 25	·1003					
16. 21	56. 40	14. 51	·0992					
17. 7	57. 30	15. 30	·1028					
17. 20	55. 40	16. 45	·1014					
	***	17. 45	·1020					
17. 50	55. 15	23. 14	·1014					
	***	23. 30	·1017					
18. 23	56. 50	23. 44	·1015					
	***	23. 53	·1023					
20. 17	56. 0	23. 59	·1020					
	***							
21. 43	21. 58. 0							
	***							
23. 59	22. 5. 30							
	***							
Apr. 22		Apr. 22		Apr. 22		Apr. 22		
0. 37	22. 9. 10	0. 0	·1020	0. 45	·01940	1. 40	59 ·5	63 ·0
1. 16	7. 40	0. 16	·1020	2. 0	·01924	3. 40	61 ·0	63 ·0
2. 5	13. 0	0. 24	·1024	3. 22	·01945	9. 40	58 ·5	62 ·3
	***	1. 13	·1014	4. 7	·01845	23. 9	50 ·5	53 ·0
2. 59	6. 15	2. 0	·1028	6. 59:	·01880			
	***	2. 30	·1008	8. 31	·02005			
3. 48	9. 0	2. 44	·1018	9. 30	·01940			
4. 7	8. 0	2. 53	·1014	10. 31	·01939			
4. 17	9. 15	3. 20	·1034	11. 1	·01905			
4. 23	7. 45	3. 45	·1018	12. 7	·01950			
6. 16	5. 30	4. 8	·1016	12. 57	·01823			
7. 53	22. 2. 0	4. 21	·1032	13. 20	·01873			
8. 19	21. 52. 15	4. 35	·1018	13. 51	·01834			
8. 32	22. 5. 0		***	15. 4	·01898			
8. 47	21. 57. 0	5. 40	·1030	18. 0	·01914			
8. 58	47. 0	6. 0	·1038	20. 10	·01892			
9. 5	47. 0	6. 28	·1028	21. 12:	·01868			
9. 16	44. 10	7. 15	·1040	23. 22	·01855			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 22		Apr. 22		Apr. 22				
h m	° ′ ″	h m		h m		h m	°	°
10. 0	21. 56. 0	7. 45	·1037	23. 59	·01845			
10. 21	56. 20	8. 9	·1022					
10. 28	58. 30	8. 40	·1033					
10. 37	21. 58. 30	8. 53	·1022					
10. 53	22. 2. 10	9. 0	·1028					
11. 18	21. 52. 0	10. 15	·1013					
11. 29	53. 25	10. 29	·1014					
12. 1	21. 51. 45	10. 44	·1025					
12. 40	22. 3. 30	11. 6	·1004					
12. 58	21. 55. 45	11. 30	·1033					
13. 22	22. 4. 0	11. 45	·1026					
14. 0	21. 50. 30	12. 0	·1030					
14. 29	56. 25	12. 44	·0998					
14. 48	55. 0	13. 23	·1022					
15. 8	57. 0	13. 38	·1018					
15. 53	54. 10	14. 25	·1028					
16. 15	55. 0	14. 44	·1023					
16. 23	59. 0	15. 52	·1034					
16. 47	21. 59. 0		***					
	***	17. 40	·1028					
17. 25	22. 3. 30	17. 55	·1038					
17. 59	21. 59. 45		***					
	***	19. 5	·1045					
18. 56	57. 0	19. 50	·1034					
19. 6	59. 15	21. 15	·1024					
19. 37	21. 58. 0	23. 15	·1028					
20. 58	22. 0. 0	23. 59	·1032					
21. 18	2. 45							
21. 37	1. 0							
23. 8	1. 30							
23. 59	5. 10							
Apr. 23		Apr. 23		Apr. 23		Apr. 23		
0. 24	22. 5. 45	0. 0	·1032	0. 15	·01894	10. 0	52 ·0	55 ·0
1. 55	6. 40	1. 15	·1042		***	21. 40	46 ·0	48 ·5
	***	1. 25	·1038	3. 47	·01960			
3. 23	13. 0	1. 43	·1042	6. 31:	·01817			
3. 32	11. 0	2. 10	·1030	8. 30	·01860			
	***	2. 25	·1031	10. 0	·01845			
4. 36	9. 30		***	10. 22	·01850			
5. 18	7. 20	3. 0	·1037	10. 50	·01775			
	***	3. 29	·1004	11. 10	·01820			
7. 0	4. 45	4. 0	·1038	12. 17	·01930			
	***	4. 30	·1021	13. 40	·01820			
7. 55	0. 30		***		***			
8. 43	4. 0	5. 35	·1042	13. 43	·01755			
9. 36	2. 30	6. 0	·1044		***			
9. 54	21. 59. 35	6. 5	·1052	15. 5	·01725			
10. 7	22. 1. 0	6. 36	·1053	15. 17	·01745			
10. 17	21. 58. 15	7. 5	·1058	15. 30	·01730			
10. 33	22. 8. 30	7. 39	·1041	16. 0:	·01760			
11. 1	21. 52. 20		***	16. 38	·01725			
11. 12	56. 0	8. 15	·1040	17. 3	·01695			
11. 57	59. 30	8. 30	·1048	17. 13	·01691			
12. 35	58. 0	8. 34	·1043	17. 48	·01739			
12. 52	52. 15		***	18. 0	·01730			
13. 19	55. 0	9. 13	·1050	19. 17	·01725			
13. 44	49. 0	9. 50	·1043	20. 0	·01778			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 23		Apr. 23		Apr. 23				
h m	° ′ ″	h m		h m		h m	°	°
13. 55	21. 54. 40	10. 13	·1052	20. 12	·01773			
14. 5	53. 0	10. 25	·1102	22. 24	·01810			
14. 35	57. 30	10. 53	·1043	23. 59	·01806			
14. 47	55. 15	11. 5	·1056					
15. 8	59. 25	11. 27	·1040					
15. 20	57. 35	11. 57	·1041					
	***	12. 4	·1048					
15. 54	21. 58. 25		***					
16. 35	22. 3. 0	12. 26	·1038					
16. 45	3. 0	12. 34	·1054					
16. 57	6. 25	13. 9	·1038					
17. 16	1. 25		***					
17. 50	6. 0	13. 39	·1065					
18. 15	4. 0	13. 45	·1060					
18. 47	5. 0	13. 53	·1065					
18. 59	7. 30	14. 7	·1042					
	***	14. 28	·1028					
19. 25	1. 0	15. 0	·1036					
	***	15. 16	·1016					
20. 46	2. 30	15. 30	·1025					
	***	15. 46	·1021					
21. 33	10. 20	16. 15:	·1036					
	***	16. 48	·1022					
22. 52	9. 0		***					
	***	17. 45	·1028					
23. 44	13. 0	18. 27	·1049					
23. 58	16. 0	19. 38	·1021					
			***					
		20. 0	·1032					
		20. 29	·1026					
		20. 40	·1016					
		21. 23	·1014					
		21. 35	·1018					
		22. 30	·1012					
		23. 0	·1014					
		23. 16	·1020					
		23. 59	·1000					
Apr. 24		Apr. 24		Apr. 24		Apr. 24		
0. 8	22. 16. 30	0. 0	·1000	0. 45	·01806	1. 40	50 ·0	53 ·0
	***	0. 15	·1002	1. 10	·01795	3. 40	53 ·0	55 ·0
1. 35	14. 45	0. 40	·1022	1. 45	·01750	9. 40	56 ·0	57 ·5
2. 45	14. 0	0. 45	·1019		***	21. 40	45 ·0	48 ·0
3. 12	19. 40	1. 13	·1035	3. 15	·01655			
	***	1. 22	·1028		***			
3. 15	16. 10	1. 25	·1034	3. 50	·01760			
3. 28	23. 0	1. 39	·1020	4. 0	·01760			
3. 32	16. 40	2. 9	·1030	4. 7	·01662			
3. 35	21. 0	2. 18	·1042		***			
3. 40	14. 30		***	4. 48	·01675			
3. 46	20. 0	2. 34	·1030	4. 53	·01640			
3. 50	12. 30	2. 50	·1046	5. 5	·01592			
	***	3. 7	·1028	5. 10	·01600			
3. 58	15. 0	3. 15	·1028	5. 24	·01505			
4. 2	10. 0	3. 24	·1052	5. 38	·01530			
4. 12	13. 0	3. 34	·1043	6. 5	·01440			
4. 14	10. 30	3. 40	·1059	6. 30	·01385			
4. 16	14. 0	3. 45	·1040	7. 12	·01385			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 24		Apr. 24		Apr. 24				
h m	° ′ ″	h m		h m		h m	°	°
4. 22	22. 9. 30	3. 51	·1052	7. 39	·01340			
4. 43	15. 10	3. 55	·1034	8. 5	·01370			
5. 20	22. 11. 0	4. 3	·1050	8. 28	·01344			
5. 26	21. 57. 0	4. 8	·1028	9. 20	·01290			
5. 33	22. 4. 0	4. 23	·1048	10. 4	·01319			
5. 43	2. 0	4. 29	·1038	10. 50:	·01325			
6. 28	7. 10	4. 45	·1058	11. 28	·01369			
6. 44	3. 0		***	12. 20	·01390			
7. 0	22. 4. 15	5. 8	·1020	12. 32	·01362			
7. 17	21. 57. 45	5. 15	·1034	12. 38	·01329			
7. 22	58. 15	5. 44	·0986	12. 50	·01338			
7. 25	57. 15	5. 53	·1016	13. 0	·01280			
7. 32	59. 30	6. 1	·1006	13. 30	·01325			
7. 40	58. 30	6. 23	·1024	14. 46	·01575			
7. 47	59. 0	6. 40	·1006	16. 7	·01755			
7. 55	47. 30	6. 59	·1015	18. 3	·01882			
8 10	52. 30	7. 13	·1000	18. 6	·01870			
8. 30	43. 15	7. 16	·1010	18. 50:	·01870			
9. 0	59. 10		***	19. 40	·01835			
9. 16	54. 0	7. 41	·1008	20. 10	·01830			
9. 28	47. 0	7. 56	·0990		***			
9. 40	53. 30	8. 10	·1016	22. 30	·01725			
9. 45	53. 0	8. 30	·1002		***			
10. 5	57. 0	8. 45	·1017	23. 59	·01755			
10. 17	52. 35	9. 2	·1017					
	***	9. 15	·0999					
11. 9	48. 35	9. 30	·0990					
11. 32	55. 0	9. 45	·1014					
12. 13	21. 55. 45	10. 3	·1001					
12. 17	22. 1. 30	10. 15	·1004					
12. 27	21. 52. 15	10. 25	·1001					
12. 43	54. 45	10. 38	·1008					
13. 12	42. 20	11. 13	·1004					
13. 20	44. 15	11. 45	·1014					
13. 44	21. 58. 0	12. 5	·1012					
14. 30	22. 2. 20	12. 27	·1034					
14. 45	0. 30	12. 36	·1060					
15. 17	1. 40	12 45	·1034					
16. 15	0. 15	13. 11	·1025					
16. 45	1. 40	13. 18	·1013					
17. 8	2. 0	13. 36	·1015					
17. 25	3. 0	13. 53	·1009					
20. 30	0. 0	15. 17	·1026					
22. 30	2. 0		***					
23. 15	3. 30	18. 5	·1028					
23. 59	5. 55	18. 45	·1022					
		19. 17	·1024					
		19. 42	·1016					
		20. 40	·1022					
		23. 59	·1020					
Apr. 25		Apr. 25		Apr. 25		Apr. 25		
0. 15	22. 6. 0	0. 0	·1020			1. 40	49 ·0	51 ·5
1. 7	6. 30	0. 20	·1022	1. 0	·01742	3. 40	52 ·0	54 ·5
2. 25	22. 6. 30	4. 0	·1022		***	9. 40	58 ·0	58 ·0
7. 0	21. 59. 30	8. 10	·1020	2. 40:	·01625	23. 4	51 ·0	54 ·2
14. 44	22. 1. 30	11. 38	·1024	4. 17	·01395			
20. 49:	21. 56. 30	19. 40	·1030	6. 10:	·01180			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Apr. 25		Apr. 25		Apr. 25				
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 4. 30	22. 30	·1014	7. 26	·01090			
		23. 59	·1016	8. 27	·01130			
				10. 19:	·01045			
				12. 10	·01055			
				12. 45	·01055			
				14. 12:	·01070			
				16. 3	·01482			
				17. 16	·01268			
				18. 20:	·01342			
				19. 17	·01345			
				20. 47	·01346			
				22. 8	·01363			
				23. 23	·01365			
				23. 59	·01370			
Apr. 26		Apr. 26		Apr. 26		Apr. 26		
0. 13	22. 5. 45	0. 0	·1016	0. 52	·01405	9. 40	57 ·0	60 ·0
1. 55	22. 10. 30	1. 10	·1016	1. 38	·01460	21. 40	52 ·3	56 ·0
6. 52	21. 58. 40	2. 0	·1030	3. 53	·01225			
7. 20	22. 0. 0	2. 16	·1026	5. 38	·01100			
7. 56	21. 57. 40	2. 45	·1026	7. 31	·00955			
8. 5	59. 0	3. 14	·1032	8. 22	·01020			
8. 9	21. 57. 40	4. 8	·1030	9. 31	·00973			
8. 52	22. 0. 30	5. 35	·1030	10. 27	·00945			
	***	6. 30:	·1037	14. 7:	·01018			
15. 47	22. 0. 0	6. 53	·1030	16. 43	·01230			
16. 20	21. 59. 0	7. 23	·1027	20. 18:	·01460			
16. 47	22. 2. 10	7. 40	·1018	23. 59	·01370			
	***	8. 4	·1033					
19. 7	21. 54. 30	8. 15	·1028					
	***	9. 30	·1030					
19. 43	55. 20	10. 30	·1026					
20. 7	58. 30	12. 15	·1026					
20. 31	21. 57. 10	15. 23	·1037					
21. 7	22. 0. 0	15. 36	·1030					
21. 50	21. 59. 0	17. 8	·1035					
23. 52	22. 7. 0	17. 38	·1032					
		18. 15	·1040					
		19. 16	·1036					
		20. 8	·1017					
		20. 20	·1020					
		20. 58	·1010					
		21. 45	·1014					
		23. 30	·0998					
		23. 46	·1008					
		23. 56	·1004					
Apr. 27		Apr. 27		Apr. 27		Apr. 27		
0. 3	22. 8. 30	0. 30	·1006	0. 15	·01368	1. 40	55 ·5	58 ·0
1. 42	11. 0	0. 58	·1013	2. 17	·01270	3. 40	57 ·5	58 ·0
4. 1	8. 0	1. 28	·1002	4. 22	·01175	9. 40	57 ·3	59 ·0
4. 23	8. 45		***	5. 18	·01105	21. 50	51 ·0	53 ·0
4. 52	8. 0	2. 40	·1022	5. 57	·01056			
5. 4	9. 0	3. 23	·1024	7. 7	·01036			
6. 32	1. 45		***	7. 52	·01031			
8. 33	2. 30	5. 14	·1030	9. 12	·01005			
9. 8	22. 0. 0		***	10. 1	·01020			
9. 43	21. 55. 0	6. 0	·1026	10. 18	·01013			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Apr. 27		Apr. 27		Apr. 27				
h m	° ′ ″	h m		h m		h m	°	°
10. 15	21. 56. 10	6. 14	·1014	11. 22	·01050			
10. 23	53. 0	6. 32	·1026	11. 42	·01020			
10. 40	53. 20		***	12. 40	·01103			
11. 8	36. 35	7. 18	·1020	13. 0	·01118			
11. 36	52. 35			13. 46	·01185			
11. 47	52. 0	9. 10	·1033	14. 32	·01300			
12. 0	53. 25	9. 25	·1022	15. 0	·01340			
12. 21	47. 20	10. 0	·1034	15. 8	·01330			
13. 8	21. 58. 50	10. 43	·1021	15. 32	·01340			
13. 18	22. 6. 0	11. 0	·1060	16. 42	·01428			
13. 37	22. 4. 10	12. 13	·1006	18. 0	·01402			
13. 53	21. 59. 15	12. 44	·1019	20. 0	·01480			
	***	13. 30	·1004	20. 15	·01465			
14. 17	22. 0. 30		***	21. 45	·01454			
14. 42	8. 0	14. 46	·1012	23. 0	·01440			
15. 23	0. 40	15. 15	·1024	23. 59	·01430			
	**		**					
16. 21	1. 0	16. 30	·1034					
16. 44	22. 2. 0	17. 15	·1034					
17. 30	21. 59. 0	17. 30	·1026					
	***		***					
19. 12	22. 1. 30	22. 15	·1016					
	***	23. 0	·1008					
19. 48	21. 59. 0	23. 59	·1010					
	***							
20. 29	22. 3. 0							
	***							
21. 32	21. 59. 0							
23. 2	22. 2. 10							
23. 56	6. 30							
Apr. 28		Apr. 28		Apr. 28		Apr. 28		
0. 18	22. 6. 45	0. 0	·1000	0. 15	·01370	1. 40	53 ·0	55 ·0
0. 38	9. 0	0. 16	·1000	3. 7:	·01405	3. 40	48 ·0	53 ·0
2. 18	9. 0	0. 37	·1008			9. 40	57 ·0	58 ·5
3. 0	8. 0		***	5. 14	·01187	21. 40	51 ·5	54 ·0
3. 17	9. 10	2. 28	·1018	6. 23	·01105			
4. 17	3. 0	3. 30	·1010	7. 23	·01030			
7. 15	1. 30		*	8. 25:	·00995			
8. 24	22. 2. 45	3. 53	·0996	9. 22	·00912			
9. 2	21. 59. 45	4. 10	·1014	10. 20	·00885			
9. 28	52. 0	6. 15	·1028	10. 58	·00848			
9. 53	21. 55. 30	6. 30	·1036	12. 5	·00910			
10. 7	22. 0. 15	6. 54	·1026	14. 25:	·00988			
10. 17	21. 55. 30	7. 5	·1032	16. 28	·01180			
10. 35	22. 0. 10	7. 30	·1024	19. 7:	·01445			
10. 45	21. 59. 15	7. 45	·1032	21. 10	·01500			
10. 58	22. 0. 45	8. 0	·1027	22. 45	·01410			
11. 26:	21. 57. 50	8. 45	·1030	23. 59	·01378			
12. 1	22. 0. 50		*					
12. 22	21. 59. 40	9. 30	·1023					
13. 13	22. 1. 30	9. 53	·1014					
14. 43	1. 0	10. 15	·1015					
15. 8	3. 0	10. 30	·1026					
16. 13	0. 6	11. 8	·1016					
16. 22	1. 0	11. 30	·1018					
17. 12	0. 0	14. 55	·1026					
17. 38	22. 2. 0		*					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Apr.28	
h m	° ′ ″
18. 0	21. 59. 40
18. 51	22. 2. 15
19. 18	21. 59. 0
19. 50	22. 3. 0
20. 17	0. 15
	***
21. 20	1. 0
21. 46	3. 25
22. 36	2. 30
23. 59	7. 20
Apr.29	
0. 34	22. 9. 0
	***
5. 30	3. 0
5. 47:	22. 4. 25
6. 28	21. 58. 0
7. 3	22. 0. 35
8. 15	21. 59. 50
8. 25	58. 0
8. 30	59. 0
8. 36	57. 40
8. 45	59. 0
8. 58	21. 55. 30
9. 8	22. 7. 45
9. 58	21. 53. 15
10. 17	55. 30
10. 38	52. 30
11. 0	59. 30
11. 21	21. 57. 0
11. 42	22. 2. 0
12. 13	21. 57. 10
12. 32	21. 57. 0
	***
13. 0	22. 0. 0
	***
14. 5	21. 57. 30
15. 4	22. 0. 30
	***
17. 1	21. 59. 30
17. 52	22. 4. 0
	***
18. 45	0. 30
18. 55	3. 30
	***
20. 38	2. 50
	***
21. 27	5. 0
22. 8	4. 0
23. 28	6. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr.28	
h m	
18. 30	·1024
19. 0	·1016
	***
21. 35	·1022
22. 33	·1010
23. 59	·1010
Apr.29	
0. 0	·1010
	***
1. 14	·1009
2. 33	·1016
2. 34	·1025
3. 0	·1016
5. 15	·1022
6. 0	·1013
7. 0	·1026
7. 20	·1018
8. 10	·1020
8. 23	·1016
8. 29	·1023
8. 35	·1019
8. 40	·1022
8. 53	·1007
9. 6	·1038
9. 30	·1004
	***
10. 15	·1014
10. 30	·1008
	***
11. 2	·1014
11. 20	·1006
11. 30	·1018
11. 55	·1008
	***
12. 55	·1015
	***
14. 16	·1012
15. 10	·1017
15. 58	·1028
16. 8	·1025
16. 23	·1034
16. 36	·1016
	***
17. 20	·1024
17. 32	·1015
	***
18. 0	·1023
18. 15	·1000
18. 39	·1022
19. 9	·1026
19. 30	·1007
19. 55	·1014
20. 17	·1008
	***
21. 26	·1018

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
0. 45	·01355
1. 34	·01362
2. 42	·01282
4. 15	·01040
5. 7	·00995
5. 10	·00980
5. 16	·01000
6. 37	·01045
8. 12	·01032
8. 52	·00992
9. 5	·01015
9. 30	·00920
10. 6	·00954
10. 34	·00945
11. 7	·00930
11. 23	·00950
11. 52	·00960
15. 9:	·01285
17. 40	·01720
19. 0	·01875
21. 1	·01730
22. 15:	·01631
23. 59	·01565

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Apr.29		
1. 40	54 ·3	55 ·8
3. 40	56 ·0	58 ·0
9. 40	58 ·0	61 ·0
23. 24	50 ·0	53 ·0

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Apr.30	
0. 0	22. 7. 40
0. 47	8. 45
0. 53	10. 30
1. 29	12. 0
1. 47	10. 45
	***
2. 4	12. 0
	***
2. 36	9. 15
	***
2. 44	10. 10
3. 5	8. 30
	***
3. 29:	22. 10. 20
	***
4. 6	21. 59. 30
	***
4. 55	22. 9. 0
5. 55	22. 4. 30
6. 12	21. 59. 30
6. 50	22. 1. 15
7. 15	21. 59. 0
7. 23	22. 0. 35
7. 34	0. 15
8. 42	3. 0
9. 20	0. 0
9. 40	22. 5. 30
10. 3	21. 58. 30
10. 28	22. 11. 30
11. 16	22. 1. 10
12. 11	21. 58. 30
12. 28	59. 20
12. 40	21. 57. 30
13. 2	22. 2. 0
13. 50	4. 25
14. 38	0. 0
	***
15. 47	22. 2. 30
20. 1	21. 58. 30
20. 20	22. 0. 0
20. 43	21. 59. 15
21. 5	22. 1. 15
21. 47	1. 0
23. 6	2. 30
23. 23	5. 0
23. 38	4. 30
23. 59	5. 30
May 1	
0. 19	22. 6. 15
1. 17	9. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr.29	
h m	
22. 8	·1008
23. 5	·1017
23. 47	·1013
23. 59	·1014
Apr.30	
0. 0	·1014
0. 46	·1019
0. 50	·1024
1. 14	·1018
1. 26	·1025
1. 47	·1016
2. 5	·1025
2. 13	·1020
2. 23	·1032
	***
3. 6	·1016
3. 25	·1040
3. 54	·1008
4. 5	·1036
4. 15	·1032
4. 30	·1052
4. 45	·1030
4. 55	·1034
5. 15	·1025
5. 25	·1030
	***
6. 6	·1014
6. 45	·1048
7. 44	·1021
	***
8. 36	·1027
9. 10:	·1020
9. 33	·1022
9. 44	·1040
10. 14	·1004
10. 30	·1042
11. 18	·1013
11. 30	·1021
	***
11. 55	·1024
13. 7	·1012
14. 0	·1021
14. 50	·1008
15. 30	·1016
	***
16. 34	·1012
17. 0	·1018
21. 30	·1006
21. 40	·1010
23. 1	·1007
23. 23	·1016
23. 53	·1003
23. 59	·1004
May 1	
0. 0	·1005
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr.30	
0. 15	·01555
1. 3	·01565
	***
2. 58	·01550
3. 13	·01575
3. 38	·01555
3. 52	·01595
4. 6	·01585
4. 17	·01595
	***
6. 27	·01455
7. 28:	·01375
8. 30	·01315
9. 32	·01254
9. 57	·01180
10. 14	·01188
10. 50	·01165
12. 28	·01090
13. 31	·01085
14. 54:	·01055
15. 45	·01095
16. 18	·01085
18. 12	·01195
19. 12:	·01183
19. 55	·01150
20. 55	·01195
22. 7	·01040
23. 59	·00908
May 1	
0. 20	·00880
1. 16	·00880

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Apr.30		
10. 45	54 ·0	58 ·0
21. 40	54 ·0	55 ·8
May 1		
1. 40	56 ·0	58 ·0
3. 40	58 ·0	59 ·3

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 1		May 1		May 1		May 1		
h m	° ′ ″	h m		h m		h m	°	°
1. 58	22. 7. 0	0. 55	·1016	1. 38	·00860	9. 40	58 ·5	61 ·0
2. 47	9. 0			1. 48	·00875	21. 40	54 ·0	56 ·0
		1. 25	·1012	2. 47	·00945			
4. 35	6. 0							
5. 37	5. 45	1. 51	·1007	3. 38	·00924			
5. 54	2. 15	2. 45	·1029	4. 0	·00928			
6. 18	22. 4. 0	3. 0	·1022	5. 48:	·01060			
6. 25	21. 59. 30			7. 45	·01030			
6. 48	22. 1. 0	4. 23	·1021	10. 0	·01020			
7. 8	0. 0	4. 30	·1026	11. 7	·01060			
8. 17	3. 0	5. 0:	·1021	12. 36	·01108			
8. 38	1. 0	5. 45	·1036	14. 7:	·01206			
9. 24	3. 20			17. 8	·01495			
10. 28	22. 3. 0	6. 23	·1031	17. 18	·01475			
11. 6	21. 54. 30	6. 33	·1036	18. 8	·01508			
11. 39	22. 1. 45	7. 8	·1030	22. 16:	·01460			
12. 15	21. 57. 0			23. 59	·01415			
12. 35	59. 0	8. 5	·1032					
		8. 30	·1020					
14. 7	21. 57. 30	10. 50	·1032					
		11. 10	·1054					
14. 43	22. 1. 25	12. 0	·1032					
15. 33	22. 2. 30	12. 40	·1021					
16. 1	21. 59. 45	13. 0	·1026					
16. 56	22. 4. 45							
17. 43	22. 1. 30	13. 36	·1020					
		14. 0	·1024					
20. 47	21. 58. 0	14. 43	·1021					
23. 59	22. 7. 0	15. 50	·1026					
		16. 15	·1017					
		17. 8	·1027					
		18. 38	·1032					
		19. 20	·1027					
		19. 53	·1029					
		23. 5	·1014					
		23. 59	·1017					
May 2		May 2		May 2		May 2		
0. 6	22. 7. 0	0. 0	·1017	0. 30	·01392	1. 40	56 ·5	58 ·0
0. 34	8. 30	0. 23	·1016	1. 2:	·01364	3. 40	58 ·6	60 ·5
1. 3	8. 0	0. 27	·1022	1. 35	·01350	9. 40	60 ·0	62 ·3
2. 10	10. 0	0. 47	·1018	2. 12:	·01335	21. 40	55 ·5	58 ·0
2. 54	9. 35			2. 50	·01282			
4. 35	4. 30	2. 30	·1026	4. 31	·01033			
10. 15	2. 30	2. 49	·1016		·01050			
16. 56	2. 20			5. 40:	·01052			
16. 28	0. 40	3. 4	·1018	7. 22	·01035			
				8. 31	·01070			
18. 45	4. 35	3. 58	·1006	9. 42	·01055			
				10. 30	·01045			
19. 35	2. 15	4. 50	·1023	12. 25	·01087			
				14. 13:	·01170			
19. 46	4. 0	6. 13	·1034	16. 22	·01358			
				20. 0:	·01633			
20. 50	0. 50	7. 50	·1021	23. 59	·01630			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 2		May 2				May 3		
h m	° ′ ″	h m		h m		h m	°	°
22. 43	22. 5. 30	9. 23	·1022					
23. 59	6. 0	11. 30	·1022					
		11. 54	·1021					
		12. 5	·1024					
		12. 27	·1022					
		17. 26	·1032					
		19. 0	·1020					
		19. 30	·1026					
		20. 35	·1018					
		21. 23	·1022					
		23. 5	·1002					
		23. 59	·1003					
May 3		May 3		May 3		May 3		
0. 0	22. 6. 10	0. 0	·1004	0. 0	·01628	1. 40	58 ·5	60 ·5
1. 16	8. 10	0. 10	·1004	2. 22:	·01450	3. 40	60 ·3	61 ·0
3. 46	6. 0				·01123	9. 40	62 ·0	63 ·0
4. 37	2. 30	1. 42	·0998	4. 30	·01150	21. 40	54 ·5	56 ·0
8. 0	3. 0			5. 35	·01128			
8. 37	1. 40	3. 15	·1006	7. 32:	·01083			
10. 16	3. 15	3. 30	·1016	9. 35	·01092			
				14. 38:	·01330			
13. 42	1. 45	4. 5	·1007	18. 47	·01962			
14. 31	4. 20	5. 0	·1020	18. 55	·01949			
15. 2	2. 45							
15. 35	5. 0	8. 30	·1017	21. 30	·01905			
16. 18	3. 45	9. 0	·1021					
17. 2	22. 4. 10			23. 21	·01835			
18. 16	21. 59. 0	14. 40	·1020	23. 59	·01768			
18. 42	22. 0. 20	15. 10	·1026					
		15. 30:	·1022					
20. 43	21. 57. 50	15. 55	·1026					
21. 28	21. 50. 40	16. 53	·1016					
22. 50	22. 2. 35							
23. 4	4. 30	18. 45	·1026					
23. 59	7. 30							
		19. 22	·1016					
		21. 0	·1021					
		22. 53	·1007					
		23. 2	·1014					
		23. 11	·1012					
		23. 39	·1013					
May 4		May 4		May 4		May 4		
0. 13	22. 7. 15	0. 0	·1012	0. 15	·01732	1. 40	58 ·0	61 ·0
1. 25	9. 30					3. 40	62 ·0	65 ·0
1. 43	12. 0	1. 0	·1002	2. 10	·01430	9. 30	64 ·5	66 ·0
		1. 39	·1001			21. 40	54 ·5	56 ·0
2. 48	8. 0	1. 47	·1014	3. 34	·01205			
3. 4	8. 0							
		2. 45	·1002	4. 52	·01200			
4. 28	3. 50	3. 15	·1004	5. 35	·01200			
7. 7	1. 45							
10. 22	2. 20	4. 16	·0998	7. 38	·01185			
11. 37	0. 0	4. 29	·1006	8. 14	·01160			
11. 47	1. 15			9. 43	·01172			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 4		May 4		May 4				
h m	° ′ ″	h m		h m		h m	°	°
12. 8	22. 0. 0	4.40	·1001	10.13	·01170			
12.33	2.35	5.10	·1004	11.22	·01210			
12.44	0. 0	5.50	·1002	12.12	·01245			
13. 2	22. 5.25	6. 0	·1014	12.47	·01270			
13.22	21.58.35	6.25	·1012	13. 0	·01292			
	***	6.30	·1003	13.25	·01276			
14. 3	50.30	6.45	·1017	14. 8	·01352			
14.14	53.30		***	14.30	·01410			
14.56	56. 0	7. 7	·1004	15.53:	·01572			
15.47	50.30	7.23	·1004	17.47	·01924			
16. 4	51.30	7.27	·1016	18.11	·01892			
	***	7.31	·1003	19. 8	·01890			
16.47	49.30	7.38	·1017	21. 5:	·01854			
17.37	56.20		***	23.30	·01880			
	***	8.10	·1001	23.59	·01886			
18.53	53. 0		***					
	***	10.30	·1016					
19.43	21.57.15	11. 0	·1011					
20.38	22. 6. 0	11.22	·1017					
	***	11.36	·0999					
21.58	6.15	11.47	·1009					
23.14	10.30	12. 3	·1010					
23.59	11. 0	12. 8	·1001					
		12.25	·1007					
		12.43	·1020					
		12.47	·1012					
		13. 0	·1025					
			***					
		13.45	·1008					
			***					
		15.53	·1021					
			***					
		17.25	·1010					
		18.25	·1012					
		18.30	·1002					
			***					
		19. 0:	·1014					
		20. 0:	·0998					
		21. 5	·0998					
		22. 3	·0992					
		23. 0	·0996					
		23.20	·0996					
		23.59	·1003					
May 5		May 5		May 5		May 5		
0.15	22. 11. 0	0. 0	·1003	0. 5	·01888	1.40	57·5	60·0
1.45	11.30	0.23	·1002	1. 5	·01880	3.40	61·0	64·0
	***	1.30	·1009	1.10	·01848	9.40	64·0	65·5
3.31	6.50	2.17	·1002	2.45:	·01650	21.40	54·0	56·0
	***	2.56	·0998	4. 8	·01280			
4.17	1.30	3.25	·1016	4.25	·01295			
4.46	5.10	3.37	·1004	5.47	·01248			
6.13	3.30	3.57	·1016	6.57	·01228			
6.43	4. 0	4.15	·1004	7.10	·01235			
6.57	1.30	4.35	·1014	7.31	·01230			
7. 3	22. 1.30	5.15:	·0997	7.43	·01240			
7.31	21.50.35	5.55	·1004	9.37	·01220			
7.33	50.45		***	10.24:	·01228			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 5		May 5		May 5				
h m	° ′ ″	h m		h m		h m	°	°
8. 8	21. 59. 10	6.36	·1000	12. 5	·01315			
8.43	55.45	6.46	·1004	14.20:	·01570			
9. 0	57.30	7. 0	·0996	16.25	·01960			
9.23	55.40	7. 8	·1002	16.33	·01945			
10. 5	21. 59. 50	7.30	·0998	17.30	·01956			
11. 2	22. 0. 0	7.45	·1014	20.18	·01945			
11.13	21.58. 0	8.21	·0996	21.42	·01925			
11.36	22. 2.45	8.48	·1001		***			
12. 2	0.25	9.30	·0989	23.59	·01930			
13.20	22. 2. 0	10. 5	·1001					
19.35	21.57.30	10.15	·1001					
23.46	22. 4.30	10.30	·0998					
		10.54	·1004					
		11.14	·1034					
		11.50	·1004					
		14.45	·1012					
		16. 6	·1012					
		18.25	·1018					
		20.30	·1017					
		22. 0	·1010					
		23.10	·1008					
		23.42	·1011					
		23.59	·1016					
May 6		May 6		May 6		May 6		
0. 0	22. 5. 0	0. 0	·1014	0.16	·01930	1.40	57·0	58·5
1.28	22. 5.50	0.25	·1017	1.37	·01870	3.40	59·0	61·7
17.10	21. 59. 35	0.34	·1014	2.52	·01790	9.40	60·0	63·0
20. 5	21. 59. 30		***	4. 7	·01675	23.37	57·0	58·0
21. 0	22. 2.10	5.15	·1016	4.57	·01570			
21. 5	0.15	5.20	·1010	8.38:	·01272			
22. 7	5. 0	5.40	·1016	11.45	·01278			
23.47	7.30	6. 3	·1016	13.24	·01370			
		6. 8	·1010	15.13:	·01445			
		6.26	·1012	16.57	·01570			
		6.35	·1020	18.38	·01692			
			***	18.47	·01668			
		7.20	·1010	20.16:	·01740			
		14.25	·1022	23. 2	·01762			
		15.35	·1019	23.59	·01712			
		18.50	·1021					
		21. 3	·1016					
		21.37	·1020					
		21.50	·1014					
		23.30	·1010					
		23.41	·1010					
May 7		May 7		May 7		May 7		
0. 3	22. 7.35	0.13	·1008	0.15	·01698	9.57	61·2	63·2
1.38	8.50	1.30	·1010	1.30	·01625	21.40	55·8	57·0
5. 1	2.45	4.40	·1020	3.19	·01475			
7.13	1. 0	4.54	·1019	4.52	·01326			
10.11	22. 2. 0	4.59	·1013	6. 7	·01211			
18.38	21.56.25	5.15	·1018	7.13:	·01095			
20.16	21.57. 0	5.52	·1017	8.31	·01070			
23.38	22. 6. 0	6. 0	·1024	10.23	·01063			
			***	12. 0	·01117			
		7.17	·1014	13. 8	·01190			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 7 h m		May 7 h m		h m	°	°
		7. 50	·1020	15. 34:	·01342			
		10. 45	·1021	17. 22	·01535			
		11. 0	·1018	18. 30	·01670			
		12. 20	·1023	20. 12	·01840			
		18. 30	·1020		***			
		20. 35	·1020	21. 0	·01878			
		23. 25	·1001		***			
		23. 45	·1003	21. 45	·01845			
					***			
				22. 45	·01825			
				23. 59	·01812			
May 8		May 8		May 8		May 8		
0. 10	22. 6. 30	0. 0	·1003	0. 30	·01802	1. 40	58 ·5	59 ·0
2. 13	7. 20	3. 15	·1018	1. 35	·01778	3. 40	59 ·5	62 ·5
5. 33	2. 30	3. 40	·1014	2. 13	·01713	9. 40	59 ·0	61 ·0
7. 45	1. 30	4. 5:	·1019	3. 0	·01610	21. 40	52 ·0	54 ·3
8. 40	22. 3. 15		***	5. 22:	·01405			
9. 21	21. 59. 30	5. 16	·1018	7. 45	·01380			
9. 49	59. 30		***	8. 35	·01380			
10. 3	56. 40	6. 13	·1026	9. 45	·01430			
10. 25	55. 30		***	10. 30	·01460			
10. 50	47. 25	6. 45	·1021	11. 5	·01495			
11. 18	50. 50	7. 8	·1030	12. 15	·01573			
11. 31	49. 35	7. 23	·1025	12. 42	·01613			
12. 8	52. 30	8. 0	·1026	13. 30	·01702			
12. 37	50. 30	8. 16	·1033	15. 38	·01925			
13. 19	56. 15		***	15. 48	·01887			
	***	9. 13	·1020	16. 26	·01845			
14. 23	59. 45	9. 35	·1026	16. 55	·01870			
14. 35	58. 30	10. 0	·1024	17. 0	·01852			
14. 43	59. 30	10. 13	·1027	17. 27	·01861			
15. 22	55. 20		***	18. 25	·01855			
15. 52	59. 30	11. 5	·1001	18. 52	·01841			
16. 27	53. 30	11. 16	·1006	20. 6	·01832			
16. 36	54. 45		***	20. 15	·01835			
17. 44	55. 0	12. 0	·1008	21. 6	·01812			
18. 23	53. 0	12. 30	·1008	21. 37	·01823			
18. 36	54. 45	12. 45	·1004	22. 27	·01785			
18. 57	53. 0	14. 46	·1016	22. 55	·01780			
	***	15. 30	·1013	23. 23	·01770			
19. 43	57. 30	16. 5	·1028	23. 32	·01753			
20. 0	21. 56. 50	16. 45	·1019	23. 59	·01785			
	***	17. 36	·1020					
20. 35	22. 1. 0		***					
	***	19. 23	·1007					
20. 50	21. 59. 0	20. 23	·1017					
	***		***					
21. 15	22. 2. 20	21. 0	·1009					
21. 54	1. 10	21. 25:	·1015					
22. 44	5. 25		***					
	***	22. 35	·1005					
23. 59	7. 30	23. 59	·1006					
May 9		May 9		May 9		May 9		
0. 16	22. 8. 15	0. 0	·1006	1. 0	·01650	1. 40	55 ·5	57 ·0
0. 57	9. 15	1. 15	·0996	1. 15	·01628	3. 40	58 ·5	59 ·0
1. 13	8. 30	1. 37	·1014	1. 33	·01632	10. 25	59 ·0	60 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 9 h m	° ′ ″	May 9 h m		May 9 h m		May 9 h m	°	°
1. 38	22. 12. 30	2. 3	·1000	3. 0	·01535	21. 40	52 ·2	55 ·0
2. 17	14. 0	2. 28	·1001	3. 30	·01470			
3. 13	10. 10	2. 42	·1004	4. 7	·01390			
	***	3. 9	·0993	4. 36	·01323			
4. 9	11. 30	3. 21	·0996	5. 18	·01202			
4. 19	9. 0	3. 40	·1028	5. 55	·01128			
4. 47	9. 45		***	6. 37	·01135			
4. 58	7. 0	4. 17	·0998	7. 23	·01083			
5. 11	9. 0		***	7. 47	·01090			
5. 20	4. 30	5. 14	·1022	8. 27	·01088			
6. 15	4. 0		***	8. 50	·01042			
6. 31	0. 30	5. 36	·1021	10. 13	·01055			
7. 19	22. 3. 15	6. 0	·1026	10. 34	·01062			
7. 47	21. 59. 15	6. 30	·1016	11. 2	·01063			
8. 17	59. 20	7. 0	·1021	11. 20	·01041			
8. 31	51. 25	7. 45	·1021	11. 38	·01060			
8. 38	57. 20	7. 52	·1025	11. 48	·01065			
9. 3	54. 30	8. 17	·1016	13. 30	·01158			
9. 30	55. 30	8. 34	·1040	14. 45	·01290			
9. 45	57. 50	9. 15	·0992	16. 14	·01462			
9. 53	57. 20	9. 57	·1006	17. 33	·01640			
10. 22	57. 35	10. 34	·1000	19. 13	·01841			
10. 30	55. 30	11. 10	·1016	19. 30	·01825			
11. 2	56. 0	11. 30	·1000	19. 48	·01802			
11. 35	47. 0	11. 45	·1015	20. 27	·01800			
12. 12	55. 15	12. 6	·1000	21. 53:	·01800			
12. 29	53. 30	12. 45	·1010	23. 57	·01695			
12. 46	54. 45	16. 53	·1013					
13. 35	53. 30	18. 10	·1008					
14. 8	54. 30	19. 0	·1015					
14. 56	58. 0	21. 50	·1009					
19. 26	56. 30	22. 45	·0999					
20. 32	21. 58. 30	23. 55	·1001					
23. 23	22. 9. 45							
23. 59	10. 15							
May 10		May 10		May 10		May 10		
0. 17	22. 9. 50	0. 0	·1004	0. 4	·01695	1. 40	57 ·0	58 ·5
1. 26	8. 45	0. 16	·1006	2. 12:	·01440	3. 40	59 ·5	61 ·0
2. 14	9. 15	1. 23	·1000	3. 30	·01123	9. 40	64 ·0	64 ·8
3. 49	3. 45	2. 14	·1004	3. 53	·01103	21. 40	55 ·0	57 ·0
7. 39	22. 1. 30		***	4. 8	·01125			
8. 7	21. 58. 15	2. 45	·0997	4. 43	·01120			
	***	3. 30	·1000	5. 5	·01130			
9. 44	22. 3. 30	3. 54	·0994	5. 35	·01120			
9. 47	5. 0	4. 23	·1001	5. 56	·01132			
10. 27	0. 0	4. 40	·1001	7. 5	·01132			
11. 53	22. 1. 35	5. 5	·1010	7. 33	·01123			
	***	5. 40	·1006	8. 15	·01155			
19. 4	21. 56. 30	6. 0	·1015	9. 35	·01132			
	***	6. 33	·1009	10. 7	·01115			
19. 50	59. 30	7. 5	·1010	10. 45	·01132			
	***	7. 45	·0994	11. 22	·01170			
20. 58	21. 58. 35	8. 10	·1002	13. 20:	·01310			
21. 53	22. 4. 30		***	15. 0	·01520			
23. 12	8. 0	9. 45	·1004	16. 0	·01670			
23. 59	8. 15	10. 5	·1000	18. 4	·01955			
		10. 11	·1010	18. 38:	·01918			
			***	19. 13	·01915			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 10 h m		May 10 h m		h m	°	°
		10. 53	·1004	20. 25	·01877			
		11. 8	·1005	21. 0	·01868			
			***	21. 27	·01855			
		11. 45	·1011	22. 5	·01852			
		12. 8	·1010	22. 45	·01852			
		12. 18	·1002	23. 59	·01850			
		12. 30	·1012					
		12. 38	·1004					
		12. 50	·1003					
		12. 54	·1010					
		13. 7	·1005					
		13. 15	·1013					
		13. 45	·1014					
		13. 51	·1008					
		13. 59	·1010					
		14. 4	·1003					
		14. 10	·1001					
		14. 40	·1006					
		14. 57	·1010					
		17. 45	·1010					
			***					
		18. 15	·1012					
		18. 35	·1007					
		19. 25	·1016					
		21. 15	·1006					
		21. 28	·0998					
		21. 45	·1014					
		22. 10	·1010					
		23. 0	·1014					
		23. 20	·1012					
		23. 59	·1020					
May 11		May 11		May 11		May 11		
0. 14	22. 9. 30	0. 0	·1021	0. 15	·01839	1. 40	58 ·0	59 ·4
1. 31	11. 0	0. 20	·1024	2. 7:	·01745	3. 40	61 ·0	63 ·0
	***	0. 29	·1034	3. 48	·01445	9. 40	53 ·5	55 ·5
4. 28	5. 45	1. 45	·1022	5. 7	·01183	21. 40	54 ·5	57 ·0
	***	2. 3	·1024	5. 17	·01198			
6. 0	4. 30	2. 19	·1014	5. 48	·01210			
	***	2. 47	·1021	6. 10	·01215			
6. 47	0. 30	3. 5	·1019	6. 37	·01222			
7. 13	2. 20	3. 55	·1000	7. 7	·01232			
9. 40	2. 30		***	7. 45	·01217			
10. 47	22. 0. 30	4. 55	·1018	8. 31	·01190			
11. 8	21. 53. 0	5. 20	·1016	9. 6	·01185			
11. 40	52. 30	5. 32	·1020	10. 5	·01165			
12. 11	55. 30	5. 44	·1014	10. 15	·01155			
13. 34	58. 30	5. 58	·1020	11. 15	·01175			
14. 12	56. 15	6. 23	·1003	11. 30	·01180			
16. 53	57. 15	6. 44	·1001	14. 33:	·01170			
18. 6	21. 56. 30	6. 50	·0996	16. 55	·01759			
21. 0	22. 0. 0	7. 12	·1005	17. 56	·01935			
21. 39	3. 0	7. 31	·1003	18. 6	·01915			
22. 17	3. 30	8. 5	·1008	19. 3	·01905			
23. 59	9. 0	8. 30	·1008	19. 37	·01887			
		9. 50	·1012	20. 6	·01875			
		10. 51	·1001	21. 0	·01875			
		11. 13	·1019	22. 6	·01905			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 11 h m		May 11 h m		h m	°	°
		11. 43	·1004	23. 30	·01910			
		12. 23	·1000	23. 59	·01905			
		12. 45	·1000					
		13. 14	·1005					
		13. 40	·1020					
		14. 0	·1020					
		14. 55	·1007					
		15. 30	·1012					
		16. 0	·1010					
		17. 15	·1016					
		18. 45	·1015					
		21. 45	·0999					
		22. 17	·1002					
		23. 0	·1000					
		23. 54	·1007					
May 12		May 12		May 12		May 12		
0. 10	22. 9. 40	0. 0	·1007	0. 30	·01875	1. 40	58 ·5	61 ·0
1. 10	11. 30	0. 45	·1009	1. 35	·01750	3. 40	62 ·0	64 ·5
2. 34	10. 0	1. 10:	·1015	2. 22	·01583	9. 40	67 ·0	69 ·0
2. 44	12. 30	2. 6	·1004	3. 13	·01412	21. 40	59 ·5	61 ·0
3. 2	9. 0	2. 46	·1014	4. 3	·01223			
4. 53	5. 0	3. 25	·1007	4. 15	·01245			
	***		***	4. 51	·01272			
8. 8	2. 15	3. 55	·1010	6. 5	·01250			
8. 24	3. 25	4. 5	·1004	6. 52	·01230			
8. 50	0. 0	4. 38	·1004	7. 50	·01228			
9. 25	22. 1. 0	4. 50	·1009	8. 44	·01250			
11. 45	21. 59. 30		***	10. 12	·01220			
12. 18	22. 1. 0	6. 5	·1006	10. 58	·01228			
12. 47:	6. 0		***	12. 42	·01290			
13. 47:	0. 0	6. 45	·1013	13. 17	·01318			
14. 50:	2. 45	6. 52	·1006	13. 45	·01367			
15. 47	22. 0. 30	7. 35	·1008	14. 37	·01472			
19. 26	21. 57. 10		***	15. 42	·01621			
22. 38	22. 4. 40	8. 7	·1004	16. 43	·01770			
23. 48	8. 35	8. 30	·0993	17. 52	·01918			
		8. 58	·0992	18. 43	·02024			
		9. 45	·0994	19. 50	·01985			
		10. 7	·1000	20. 38	·01913			
		10. 50	·0998	21. 30	·01942			
		11. 14	·1003	22. 18	·01930			
		11. 40	·0994	23. 59	·01875			
		12. 26	·0995					
		13. 0:	·1007					
		13. 30	·1006					
		16. 35	·1006					
		17. 20	·1010					
		22. 45	·0986					
		23. 40	·0990					
May 13		May 13		May 13		May 13		
0. 12	22. 9. 35	0. 5	·0992	0. 30	·01840	1. 40	61 ·5	64 ·0
1. 43:	13. 35	1. 5	·0992	2. 20:	·01730	3. 40	63 ·5	65 ·0
7. 9	0. 30	1. 43	·0996	3. 15	·01610	9. 40	64 ·5	67 ·5
9. 4	2. 20	2. 5	·0992	5. 3:	·01390	23. 31	60 ·5	62 ·5
15. 55	22. 2. 50	2. 15	·0996	7. 10	·01252			
17. 48	21. 59. 20	2. 27	·0994	8. 28	·01187			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 13		May 13		May 13				
h m	° ′ ″	h m		h m		h m	°	°
20. 52	21. 58. 30	2. 48	·0998	9. 5	·01201			
22. 4	22. 1. 0	3. 16:	·0992	10. 45:	·01182			
23. 59	8. 0	3. 50	·0999	11. 58	·01210			
		4. 7	·0994	13. 50	·01310			
		7. 6	·1010	15. 20:	·01400			
		9. 10	·1004	17. 19	·01642			
		10. 10	·1007	18. 15:	·01755			
		14. 0	·1007	19. 30	·01913			
		14. 30	·1010	19. 37	·01945			
		19. 50	·1010	20. 16	·01945			
		23. 0	·0992	21. 5	·01937			
		23. 24	·0993	22. 0	·01940			
		23. 59	·0990	23. 7	·01950 ·01870			
				23. 59	·01832			
May 14		May 14		May 14		May 14		
0. 37	22. 9. 30	0. 0	·0990	1. 0	·01685	9. 40	66 ·0	68 ·0
1. 31	10. 30	1. 34	·0993	1. 33	·01580	21. 40	61 ·5	63 ·0
2. 40	9. 40	2. 8	·0988	2. 20	·01430			
6. 15	22. 2. 0	2. 32	·0988	3. 15	·01245			
7. 7	21. 59. 0	2. 56	·0996	4. 4:	·01306			
7. 47	21. 59. 40	3. 20	·0987	5. 7	·01290			
10. 0	22. 0. 0	4. 5	·0988	5. 48	·01282			
10. 32	21. 57. 0	4. 18	·0993	6. 45	·01278			
11. 33	21. 59. 30	4. 40	·0988	7. 57:	·01249			
16. 38	22. 0. 0	5. 10	·0990	9. 0	·01265			
17. 0	21. 58. 30	5. 22	·0994	10. 37:	·01305			
17. 32	58. 45	5. 38	·0985	11. 32	·01379			
18. 22	55. 0		***	12. 15	·01435			
19. 6	57. 10	6. 40	·0991	13. 13	·01515			
20. 29	57. 10	7. 0	·1000	14. 4	·01618			
20. 37	55. 15	7. 29	·1002	15. 8	·01755			
21. 2	58. 30	8. 7	·0996	17. 0	·02005			
21. 15	56. 30	9. 6	·0998	17. 15	·01988			
22. 1	21. 56. 40	9. 18	·0996	17. 57	·01985			
22. 32	22. 1. 30	9. 50	·0998	18. 45	·01985			
22. 41	21. 58. 30	10. 35	·1006	20. 35	·01968			
22. 47	22. 4. 30	11. 5	·1000	21. 58	·01960			
	***	12. 30	·1000	22. 15	·01940			
23. 59	9. 0	16. 32	·1012	22. 40	·01955			
		16. 40	·1018	22. 47	·01930			
		18. 20	·1021	22. 55	·01940			
		19. 45:	·1012	23. 45	·01875			
		20. 34	·1011	23. 59	·01832			
			***					
		21. 43	·1007					
		22. 10	·1012					
		22. 43	·0987					
		22. 46	·0987					
		22. 55	·0996					
		23. 2	·0988					
			***					
		23. 20	·0993					
		23. 45	·0987					
		23. 50	·0998					
		23. 59	·0994					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 15		May 15		May 15		May 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 21	22. 12. 30	0. 0	·0993	0. 30	·01784	1. 40	54 ·5	57 ·0
	***	0. 15	·0977			3. 40	68 ·3	69 ·0
1. 44	10. 35		***	2. 30	·01515	9. 40	68 ·0	69 ·5
1. 54	12. 15	0. 46	·0968	3. 7	·01420	21. 40	59 ·0	61 ·0
3. 23	13. 40	1. 0	·0990		***			
3. 35	19. 45	1. 7	·0978	3. 55	·01320			
4. 1	13. 0	1. 23	·1004	4. 10	·01312			
4. 17	5. 10	1. 40	·0987	4. 22	·01335			
4. 28	5. 10	1. 58	·1010	4. 48	·01325			
4. 47	10. 45	2. 8	·1002	4. 58	·01310			
	***		***	5. 10	·01290			
5. 18	8. 30	2. 32	·1007	5. 17	·01305			
5. 26	10. 30	2. 45	·1002	5. 21	·0129			
	***	3. 5	·1021	5. 30	·01292			
5. 51	5. 45	3. 25	·1026	5. 50	·01280			
5. 58	6. 20	3. 38	·1015	6. 8	·01300			
6. 32	4. 10	3. 45	·1019	6. 22	·01297			
6. 52	7. 10	4. 14	·0969	6. 35	·01315			
7. 8	22. 2. 15	4. 53	·1010	6. 50	·0131			
8. 8	21. 54. 10	5. 0	·1001	7. 43	·01350			
8. 25	56. 50		***	8. 8	·01325			
8. 31	55. 0	5. 18	·1010	8. 43	·01320			
8. 38	55. 0	5. 29	·1001	9. 5	·01315			
8. 51	45. 15	5. 31	·1008	9. 30	·01248			
9. 7	54. 45	5. 51	·0983	10. 6	·01300			
9. 18	50. 30	6. 14	·1004	10. 36	·01300			
9. 22	50. 50	6. 23	·0996	11. 37	·01398			
9. 47	49. 0	6. 38	·1008	11. 50	·01351			
10. 22:	53. 30	6. 53	·0994	12. 4	·01395			
10. 43	55. 0	7. 4	·0998	12. 43	·01475			
10. 55	55. 0	7. 19	·0990	13. 57	·01550			
11. 9	52. 40	7. 29	·0992	14. 18	·01638			
11. 33	54. 0	7. 34	·0987	14. 23	·01635			
11. 46	59. 45	7. 55	·0990	14. 50	·01708			
12. 2	52. 0	8. 9	·0984	16. 0	·01980			
12. 8	52. 20	8. 20	·0992	16. 57	·02000			
12. 22	50. 30	8. 27	·0986	18. 0	·02000			
12. 53	55. 0	8. 32	·0990	19. 6	·01987			
13. 17	55. 0	8. 45	·0975		***			
13. 32	51. 30	9. 10	·1000	20. 15	·01990			
13. 42	53. 0	9. 45	·0956	21. 37	·01973			
13. 58	50. 10	10. 16	·0978	22. 50	·01980			
14. 17	56. 20	10. 43	·0968	23. 31	·01965			
14. 42	53. 25	10. 47	·0974	23. 59	·01953			
	***	10. 58	·0966					
15. 40	58. 0	11. 5	·0976					
	***	11. 16	·0975					
17. 12	56. 0	11. 45	·0995					
17. 29	58. 0	11. 54	·0986					
19. 31	56. 40	12. 10	·1004					
	***	12. 32	·0996					
21. 9	21. 59. 0	12. 52	·1015					
	***	13. 10	·1003					
22. 38	22. 0. 0	13. 25	·1012					
23. 59	4. 30	13. 50	·0982					
		14. 24:	·1002					
		14. 49	·1010					
		15. 23	·0997					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 15 h m		h m		h m	°	°
		17. 0	·1005					
		17. 44	·1001					
		18. 3	·1004					
		19. 39	·1002					
		20. 21	·1008					
		20. 32	·1001					
		21. 30	·1001					
		22. 0	·1006					
		23. 5	·1003					
		23. 14	·1008					
		23. 27	·1002					
		23. 34	·1006					
		23. 45	·1001					
		23. 59	·1004					
May 16		May 16		May 16		May 16		
0. 30	22. 5. 20	0. 0	·1003	1. 0	·01920	1. 40	60 ·8	63 ·0
2. 16	6. 0	0. 50	·1006	1. 59	·01870	3. 40	63 ·0	66 ·5
	***	1. 5	·1015	2. 40	·01792	9. 40	64 ·0	67 ·5
3. 37	8. 25	1. 33	·1014	2. 57	·01780	21. 40	54 ·0	57 ·0
3. 52	7. 30	2. 0	·1018	3. 23	·01700			
4. 23	9. 30	2. 15	·1016	5. 37	·01545			
4. 38	6. 35	2. 30	·1024	7. 7	·01345			
4. 44	7. 10	2. 44	·1019	7. 22	·01335			
4. 51	3. 35	3. 0	·1037	7. 52	·01305			
5. 6	3. 35		***	8. 58	·01262			
5. 17	6. 0	3. 15	·1028	10. 28	·01210			
5. 26	4. 0	3. 46	·1044	10. 32	·01220			
5. 37	4. 45	4. 14	·1026	11. 3	·01128			
5. 44	2. 30	4. 30	·1034	11. 23	·01200			
6. 18	2. 30	4. 50	·1020	11. 50	·01260			
6. 55	5. 0		***	13. 31	·01470			
7. 10	3. 10	5. 6	·1022	14. 13	·01545			
7. 40	22. 3. 0	5. 14	·1017	14. 37	·01625			
8. 29	21. 58. 25	5. 30	·1028	15. 7	·01680			
8. 40	54. 0		***	16. 0	{·01870			
8. 43	54. 40	6. 17	·1001		·01853			
8. 55	52. 0		***	17. 53	·01897			
9. 12	56. 25	7. 0	·1024	18. 1	·01870			
9. 29	52. 40	7. 7	·1021	18. 22	·01905			
9. 38	57. 0	7. 15	·1030	21. 23	{·01890			
9. 52	53. 30	7. 42	·1010		·01905			
10. 4	55. 40	7. 59	·1021	22. 33	·01875			
10. 17	21. 54. 30	8. 5	·1016	23. 28:	·01880			
10. 45	22. 10. 30		***	23. 59	·01860			
11. 2	21. 53. 40	8. 23	·1021					
11. 20	57. 10	8. 32	·1012					
11. 28	55. 35	8. 40	·1021					
11. 38	57. 30	8. 54	·1006					
12. 40	58. 0	9. 6	·1010					
13. 21	21. 56. 50	9. 29	·0996					
14. 5	22. 5. 30	9. 38	·1000					
14. 19	4. 35	9. 45	·0994					
14. 35	9. 0	10. 2	·0995					
15. 0	22. 3. 0	10. 20	·0984					
15. 54	21. 57. 15	10. 37	·1021					
16. 7	59. 30	11. 0	·0970					
	***	11. 16	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 16		May 16						
h m	° ′ ″	h m		h m		h m	°	°
17. 54	21. 57. 0	11. 30	·0993					
	***	11. 45	·1008					
19. 10	22. 0. 35	12. 0	·1004					
	***		***					
20. 34	21. 59. 25	13. 16	·1008					
22. 23	22. 7. 0	13. 29	·1002					
23. 59	7. 0	13. 53:	·1001					
		14. 10	·0996					
		15. 13:	·1030					
			***					
		15. 57	·1020					
		16. 45	·1022					
		16. 51	·1031					
		17. 5	·1024					
			***					
		19. 2	·1010					
		20. 23:	·1021					
		21. 46	·1000					
			***					
		22. 17	·0989					
			***					
		22. 57	·1000					
		23. 59	·1000					
May 17		May 17		May 17		May 17		
0. 13	22. 7. 40	0. 0	·1000	0. 28	·01800	1. 40	58 ·0	60 ·5
1. 5	6. 15	1. 15	·1006	1. 7	·01740	3. 40	63 ·0	65 ·0
2. 17	7. 0		***	2. 30	·01420	9. 40	66 ·0	68 ·5
3. 16	2. 25	1. 36	·0998	3. 28	·01155	21. 40	59 ·0	61 ·5
3. 58	3. 0	1. 49	·1002		***			
4. 40	1. 30	2. 10	·0991	4. 37	·01188			
4. 53	3. 0		***	4. 50	·01200			
5. 55	22. 1. 0	2. 55	·0989	5. 22	{·01200			
6. 23	21. 53. 25	3. 44	·0998		·01240			
6. 33	55. 0	4. 12	·0996		***			
	***		***	7. 43	·01225			
7. 35	54. 0	4. 44	·0997	8. 38:	·01182			
7. 47	56. 30	5. 0	·1008	9. 29	·01170			
8. 43	57. 20	5. 30	·0992	10. 10	·01140			
9. 15	55. 0	5. 57	·1005	10. 50	·01160			
9. 49	49. 30	6. 24	·0983	12. 0	·01192			
10. 10	52. 0	6. 38	·0992	13. 20	·01243			
10. 22	51. 30		***	14. 28	·01380			
10. 35	53. 45	7. 2	·0993	15. 8	·01480			
10. 48	53. 30	7. 13	·1002	16. 10	·01650			
10. 58	56. 0	7. 30	·0994	17. 12	·01820			
12. 4	57. 20	7. 45	·1002	18. 10	·02000			
12. 43	56. 45	7. 55	·0997	19. 57	·01975			
12. 55	58. 0	8. 16	·1001	21. 0	·01970			
13. 21	21. 54. 15		***	21. 46	·01955			
14. 36	22. 1. 40	9. 25	·0989	23. 0	·01964			
17. 47	21. 57. 0	9. 57	·0997	23. 59	·01965			
20. 33	21. 56. 0	10. 23	·0984					
22. 24	22. 1. 0		***					
23. 59	7. 0	11. 0	·0993					
		11. 23	·0988					
		12. 34	·0994					
		13. 0:	·1001					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
h m	° ′ ″	May 17 h m		h m		h m	°	°
		13. 45	·0987					
			***					
		15. 30	·1002					
		17. 30	·1000					
		19. 0	·1002					
		20. 30	·0998					
		23. 35	·1000					
May 18		May 18		May 18		May 18		
0. 18	22. 7. 40	1. 0	·1006	1. 30	·01990	1. 40	59 ·5	62 ·0
2. 10	8. 15	1. 38	·1013	2. 50	·02015	3. 40	59 ·0	62 ·6
3. 9	7. 20		***	3. 17	·02010	9. 50	60 :0	62 ·7
4. 30	3. 20	2. 24	·1010	4. 15	·02020	21. 40	53 ·5	55 ·0
8. 17	22. 1. 30	3. 0	·1018	5. 27	·02010			
9. 46	21. 59. 10	3. 36	·1005	6. 22	·02010			
12. 27	22. 0. 10		***	7. 32	·02024			
12. 54	2. 45	4. 55	·1022	8. 47	·02050			
13. 10	2. 0	5. 52	·1016	11. 12	·02055			
13. 23	3. 40	8. 6	·1026	12. 52	·02027			
14. 43	0. 0	12. 15	·1019	13. 0	·01990			
17. 33	22. 1. 0	12. 31	·1016	13. 22	·02000			
19. 50	21. 58. 40		***	14. 38	·01940			
21. 37	22. 0. 15	13. 50	·1026	15. 46	·01927			
23. 5	4. 35	14. 45	·1022	16. 36	·01920			
23. 59	7. 0	19. 6	·1033	17. 28	·01921			
		23. 59	·0998	18. 30	·01891			
				20. 20	·01865			
				21. 4	·01845			
				22. 45	·01890			
				23. 13	·01873			
				23. 32	·01825			
				23. 59	·01770			
May 19		May 19		May 19		May 19		
0. 39	22. 7. 30	0. 0	·0998	0. 48	·01625	1. 40	57 ·5	61 ·0
2. 15	6. 30	2. 0	·0998	1. 45	·01365	3. 40	62 ·0	64 ·0
5. 19	22. 0. 0	2. 6	·0996	2. 46	·01020	9. 40	65 ·8	67 ·0
7. 16	21. 59. 25	2. 26	·1002	3. 38	·01085	21. 40	56 ·5	57 ·5
	***	3. 5	·0998	4. 40	·01100			
8. 10	22. 1. 0	4. 7	·0997	5. 45	·01130			
10. 7	21. 57. 45	4. 25	·1003	6. 17	·01130			
10. 53	59. 20	4. 59	·1003	6. 58	·01118			
11. 54	59. 0		***	7. 53	·01105			
12. 46	55. 0	6. 23	·1018	8. 20	·01087			
13. 12	57. 30	7. 46	·1007	8. 53	·01100			
14. 7:	53. 0	8. 30:	·1013	10. 52:	·01107			
15. 20	56. 45	9. 55:	·0994	13. 18	·01240			
16. 22	54. 40	10. 29	·0998	14. 2	·01300			
16. 45	57. 0	12. 5	·0998	15. 3	·01470			
17. 47	53. 30	12. 20	·1004	16. 7	·01680			
18. 47	52. 30	12. 55	·1000	17. 16	·01921			
	***	13. 45	·1014	17. 20	·01900			
21. 21	59. 0	14. 30	·1007	18. 22	·01878			
22. 10	21. 59. 30	15. 30	·1007	19. 50	·01855			
22. 47	22. 3. 0	16. 2	·1016	21. 45	·01905			
23. 32	4. 0	16. 29	·1015	22. 20:	·01015			
23. 58	6. 0	17. 5	·1022	22. 50	·01880			
		18. 21	·1015	23. 10	·01842			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
h m	° ′ ″	May 19 h m		May 19 h m		h m	°	°
		19. 14	·1020	23. 59	·01750			
		19. 46	·1007					
		20. 6	·1012					
		20. 23	·1004					
		21. 27	·1010					
		23. 15	·1000					
		23. 59	·1000					
May 20		May 20		May 20		May 20		
0. 13	22. 7. 0	0. 14	·1004	0. 15	·01735	1. 40	60 ·8	64 ·0
0. 55	8. 0	0. 27	·0998	1. 47:	·01460	3. 40	64 ·0	67 ·5
1. 32	7. 0	0. 47	·1001	3. 3	·01123	9. 40	68 ·0	68 ·0
1. 46	8. 20	1. 19	·0992	3. 50	·01172	23. 7	59 ·0	61 ·0
2. 11	6. 0	1. 44	·1000	4. 38	·01188			
5. 53	1. 0	2. 5	·0993	7. 12	·01142			
6. 45	22. 0. 30		***	8. 22	·01145			
7. 25	21. 53. 40	2. 53	·1000	9. 15:	·01179			
8. 29	52. 30	3. 6	·0998	10. 22	·01152			
9. 3	56. 40		***	10. 33	·01162			
9. 43	59. 0	4. 34	·1001	11. 7	·01100			
10. 30	52. 20	4. 55	·0996	13. 33	·01342			
10. 42	21. 59. 30	5. 7	·1003	15. 13:	·01545			
11. 2	22. 1. 0	5. 33	·1000	17. 23	·01970			
11. 26	21. 51. 30	6. 16	·1010	17. 35	·01952			
12. 2	58. 20	6. 34	·1010	18. 30	·01960			
12. 28	55. 25	7. 8	·1000	20. 4	·01924			
13. 32	58. 0		***	21. 30	·01918			
13. 57	21. 57. 0	7. 51	·1006	22. 15	·01922			
14. 30	22. 2. 0	8. 5	·1014	23. 59	·01942			
15. 1	22. 1. 50	8. 23	·1003					
15. 28	21. 59. 20	9. 6	·1001					
17. 16	55. 0	9. 30	·1002					
19. 58	21. 54. 25	10. 4	·1010					
23. 59	22. 7. 30	10. 25	·1004					
		10. 37	·1032					
		11. 0	·1018					
		11. 19	·0992					
		11. 50:	·1007					
		12. 14	·1000					
			***					
		13. 38	·1010					
		13. 54	·1004					
		14. 30	·1005					
		15. 15:	·1015					
		16. 15	·1008					
		17. 36	·1015					
		22. 34	·1000					
		23. 59	·1001					
May 21		May 21		May 21		May 21		
0. 10	22. 8. 30	0. 0	·1001	0. 30	·01928	9. 54	63 ·4	65 ·0
1. 17	9. 35	0. 8	·1001	2. 25:	·01828	21. 40	59 ·0	62 ·0
3. 3	3. 0	0. 40	·0993	4. 9	·01600			
5. 50	4. 0	1. 18	·1004	4. 45	·01497			
7. 0	0. 0	1. 37	·0996	5. 22	·01418			
7. 12	22. 2. 20		***	6. 7	·01340			
7. 34	21. 58. 0	2. 20	·0999	6. 44	·01311			
7. 56	59. 25	2. 29	·0994	6. 55	·01278			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 21		May 21		May 21				
h m	° ′ ″	h m		h m		h m	°	°
8. 42	21. 58. 15	3. 26	·1017	7. 22	·01252			
9. 8	59. 45	4. 6	·1006	7. 42	·01257			
9. 29	21. 58. 10	4. 50:	·1012	8. 25	·01260			
9. 45	22. 0. 35	5. 28	·1026	8. 44	·01265			
10. 8	21. 59. 0	6. 20	·1014	9. 50	·01255			
10. 21	22. 0. 50	6. 48	·1041	10. 8	·01262			
10. 37	21. 59. 30	7. 26	·1018	10. 35	·01230			
11. 2	22. 2. 30	7. 38	·1026	11. 6	·01220			
11. 38	21. 53. 25	8. 6	·1014	12. 44	·01345			
12. 29	56. 30		***	13. 30	·01390			
12. 57	57. 0	9. 16	·1002	14. 22	·01445			
13. 18	21. 55. 0	9. 35	·1013	15. 15	·01515			
14. 0	22. 0. 35	9. 53	·1007	16. 18	·01665			
14. 15	21. 59. 30	10. 20	·1040	16. 57	·01746			
14. 57	22. 5. 25	11. 23	·1005	17. 43	·01830			
15. 47	21. 55. 30	11. 45	·1014	17. 46	·01745			
16. 6	21. 55. 35	12. 16	·1010	19. 37	·01915			
16. 40	22. 1. 30	12. 55:	·1021	19. 43	·01893			
18. 2	21. 57. 10	13. 20	·1018	20. 37	·01890			
19. 16	21. 59. 0	13. 30	·1004	22. 18	·01840			
20. 8	22. 1. 50	13. 50	·1002	23. 59	·01868			
21. 34	1. 0	14. 29	·1017					
23. 58	8. 0	14. 46	·1012					
		15. 21	·1032					
		16. 7	·1005					
		17. 18:	·1024					
		18. 0	·1017					
		21. 40	·1001					
		23. 59	·1009					
May 22		May 22		May 22		May 22		
0. 25	22. 8. 30	0. 23	·1009	0. 30	·01849	1. 40	60 ·7	63 ·0
1. 44	9. 15	1. 30	·1014	1. 30	·01840	3. 40	60 ·5	63 ·0
1. 55	8. 30	1. 46	·1019	2. 15	·01811	9. 40	64 ·0	65 ·0
3. 2	8. 35	2. 0	·1013	3. 20	·01756	21. 40	58 ·0	61 ·0
5. 54	4. 20		***	4. 32	·01680			
8. 16	2. 0	3. 5	·1022	8. 42:	·01463			
10. 16	3. 0	3. 39	·1013	12. 0	·01490			
10. 32	2. 0	3. 56	·1018	14. 23:	·01540			
11. 23	3. 20	4. 8	·1016	16. 33	·01690			
12. 19	2. 0	4. 20	·1022	17. 53	·01756			
14. 13	3. 30	4. 30	·1018	21. 18	·01889			
14. 45	2. 30	4. 45	·1022	23. 59	·01882			
15. 30	2. 35	5. 20	·1016					
16. 25	22. 0. 0	5. 47	·1021					
18. 45	21. 58. 0							
22. 13	22. 3. 0	8. 45	·1022					
23. 45	7. 0	9. 22	·1015					
		10. 12	·1020					
		10. 32	·1016					
		11. 15	·1020					
		12. 49	·1017					
		14. 0	·1023					
		19. 28	·1021					
		22. 44	·1010					
		23. 45	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 23		May 23		May 23		May 23		
h m	° ′ ″	h m		h m		h m	°	°
0. 8	22. 7. 0	0. 10	·1018	0. 15	·01885	1. 40	60 ·0	62 ·0
1. 2	8. 25	1. 23	·1019	1. 30	·01858	3. 40	62 ·8	65 ·0
3. 10	6. 15	2. 30	·1028	2. 43	·01736	9. 40	65 ·0	67 ·0
5. 2	1. 10		***	3. 13	·01660	21. 40	57 ·0	58 ·0
10. 33	22. 1. 30	4. 45	·1014	4. 12	·01474			
11. 58	21. 56. 45	5. 8	·1022	7. 3:	·01153			
10. 55	22. 2. 15	5. 45	·1026	9. 40	·01136			
12. 13	1. 20	6. 40:	·1022	10. 35	·01150			
12. 38	22. 2. 30	7. 48	·1024	11. 35	·01225			
14. 26	21. 58. 0	9. 1	·1023	13. 46	·01398			
16. 14	58. 45	9. 40	·1020	15. 16	·01623			
16. 55	57. 30	10. 15:	·1023	16. 3	·01750			
19. 14	56. 0	10. 50	·1018	17. 0	·01910			
21. 47	21. 59. 30	11. 8	·1025	18. 30	·01880			
23. 46	22. 3. 45	11. 25	·1021	20. 22	·01878			
23. 59	5. 45	13. 4	·1029	20. 51	·01862			
		13. 25:	·1025	21. 45	·01882			
		17. 50	·1024	22. 16	·01887			
		18. 8	·1026	23. 59	·01865			
		23. 34	·1010					
		23. 59	·1008					
May 24		May 24		May 24		May 24		
0. 26	22. 6. 35	0. 0	·1008	0. 30	·01782	1. 40	59 ·0	62 ·0
3. 4	5. 30	0. 25	·1014	2. 50:	·01442	3. 40	63 ·0	64 ·5
5. 35	1. 30	1. 59	·1023	4. 30	·01020	9. 40	66 ·0	67 ·5
9. 49	1. 0	6. 45	·1019	5. 38	·01035	21. 50	58 ·0	58 ·0
10. 3	0. 0	8. 8:	·1023	6. 22	·01025			
11. 4	1. 0	10. 0	·1015	7. 20	·01027			
11. 17	22. 3. 0	11. 10	·1016	8. 9	·01022			
11. 53	21. 59. 30	11. 38	·1030	9. 24	·01063			
13. 32	22. 0. 0	12. 45	·1018	10. 1	·01053			
20. 0	21. 56. 0	19. 8	·1028	11. 2	·01055			
23. 31	22. 3. 15	19. 46	·1024	11. 15	·01063			
		20. 8	·1028	11. 43	·01055			
		21. 55	·1018	12. 15	·01086			
		22. 25	·1021	15. 2:	·01360			
		22. 35	·1028	18. 6	·01901			
		23. 0	·1020	18. 10	·01878			
		23. 15	·1023		***			
		23. 27	·1018	20. 30	·01885			
		23. 36	·1022	21. 5	·01842			
		23. 59	·1018	22. 3:	·01872			
				22. 50	·01885			
				23. 45	·01790			
				23. 59	·01780			
May 25		May 25		May 25		May 25		
0. 0	22. 3. 30	0. 0	·1018	0. 5	·01772	1. 40	60 ·0	63 ·0
	***		***	0. 34	·01739	3. 40	62 ·0	64 ·0
0. 55	8. 10	0. 25	·1024	0. 53	·01738	9. 40	64 ·0	65 ·0
1. 8	6. 30	0. 34	·1019	1. 8	·01692	21. 40	58 ·0	59 ·5
1. 53	10. 30	0. 59	·1030	2. 20	·01572			
2. 40	9. 0	1. 11	·1025		***			
3. 5	10. 15	1. 23	·1032	3. 47	·01330			
3. 48	7. 0	1. 53	·0993		***			
4. 52	9. 0		***	4. 52	·01180			
5. 2	6. 50	2. 40	·0993	5. 1	·01141			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 25		May 25		May 25				
h m	° ′ ″	h m		h m		h m	°	°
5. 58	22. 4. 30	3. 8	·1016		***			
6. 30	8. 30	3. 15	·1010	6. 40	·01020			
6. 54	0. 20	3. 20	·1016	6. 47	·01030			
7. 7	22. 2. 30	3. 28	·1007	6. 50	·01020			
7. 40	21. 44. 45	3. 39	·1017	7. 14	·01088			
8. 8	21. 59. 30	3. 50	·1009	7. 20	·01097			
8. 45	22. 1. 0	4. 6	·1024	7. 47	·01182			
10. 30	22. 2. 30	4. 15	·1018	8. 30	·01032			
11. 45	21. 58. 0	4. 27	·1023	8. 55	·01100			
13. 2	21. 58. 0	4. 36	·1017	9. 42	·01085			
13. 14	22. 1. 30	4. 48	·1024	10. 21	·01060			
13. 25	0. 0	5. 0	·1004	10. 52	·01049			
13. 43	22. 2. 0	5. 35	·1022	12. 0	·01115			
14. 6	21. 57. 0	5. 53	·1026	13. 10	·01227			
14. 20	57. 50	6. 23	·1064	13. 47	·01262			
14. 53	55. 15	6. 59	·1018	14. 40	·01356			
	***	7. 6	·1024	15. 50	·01538			
15. 48	59. 20	7. 27	·0993	16. 12	·01565			
16. 6	21. 55. 30	7. 50	·1038	17. 30	·01755			
16. 52	22. 0. 45	8. 20	·1014	18. 38	·01882			
	***		***	19. 5	·01865			
18. 8	21. 57. 0	9. 0	·1010	19. 15	·01885			
18. 24	22. 1. 30	9. 30	·1018		***			
18. 47	21. 58. 30	9. 45	·1016	19. 40	·01882			
19. 0	22. 0. 30	10. 14	·1022	19. 46	·01862			
19. 5	21. 55. 0		***	20. 1	·01895			
19. 15	59. 50	12. 28	·1016	20. 18	·01878			
	***		***		***			
19. 45	21. 56. 50	14. 0	·1030	21. 40	·01920			
20. 2	22. 3. 45			21. 46	·01910			
20. 17	21. 58. 0	14. 45	·1020		·01340			
	***	15. 5	·1026	22. 52	·01325			
20. 45	22. 4. 0	15. 14	·1022	23. 45	·01295			
21. 45	21. 59. 30		***	23. 59	·01285			
	***	16. 0	·1032					
22. 57	22. 3. 30	16. 36	·1017					
23. 15	3. 0	17. 10	·1026					
23. 38	5. 0	17. 36	·1021					
		18. 0	·1026					
		18. 9	·1020					
		18. 25	·1032					
		19. 0	·1026					
		19. 6	·1015					
		19. 25	·1028					
		19. 46	·1013					
		20. 0	·1016					
		20. 20	·0998					
		20. 58	·1014					
		21. 34	·1016					
		21. 45	·1008					
		22. 21	·1014					
		23. 40	·1004					
		23. 59	·1002					
May 26		May 26		May 26		May 26		
0. 0	22. 6. 0	0. 0	·1003	0. 15	·01372	1. 40	60 ·0	62 ·5
0. 33	8. 0	0. 42	·1014	0. 47	·01337	3. 40	61 ·0	64 ·0
1. 12	9. 30	0. 55	·1002	1. 5	·01335	9. 40	64 ·0	67 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 26		May 26		May 26		May 26		
h m	° ′ ″	h m		h m		h m	°	°
	***	1. 8	·1016	1. 54	·01280	21. 40	57 ·0	58 ·0
2. 17	22. 8. 30	1. 27	·0997	2. 38	·01220			
2. 52	6. 30	1. 52	·1004					
2. 59	4. 0	2. 11	·1000	4. 18	·01265			
3. 17	3. 20	2. 36	·1009	5. 25	·01210			
3. 32	5. 0	3. 3	·1030	6. 10	·01208			
3. 53	1. 0	3. 20	·1006	6. 58	·01193			
4. 17	4. 30	3. 30	·1020	8. 16	·01173			
8. 37	0. 35	3. 47	·1022	9. 20	·01228			
10. 14	1. 0	3. 55	·1013	9. 38	·01205			
10. 26	22. 2. 0		***	11. 10	·01210			
10. 47	21. 59. 30	4. 23	·1020	12. 30	·01332			
11. 8	22. 0. 40	4. 45	·1007	13. 32	·01440			
11. 36	21. 58. 0	5. 14	·1018	14. 55	·01605			
12. 17	22. 0. 0	5. 20	·1016	15. 55	·01752			
12. 47	21. 58. 10	5. 43	·1028	16. 58	·01895			
	***		***	17. 7	·01882			
14. 32	22. 2. 0	6. 35	·1015	17. 45	·01886			
	***	6. 57	·1023	18. 15	·01887			
14. 55	0. 30	7. 15	·1018	19. 10	·01910			
15. 22	3. 40	7. 30	·1020	19. 13	·01902			
15. 49	1. 25		***	19. 30	·01910			
16. 29	22. 4. 0	8. 15	·1015		***			
	***	8. 23	·1021	20. 55	·01896			
19. 14	21. 55. 30			21. 23:	·01905			
	***	9. 10	·1013	21. 46	·01882			
20. 9	58. 20		***	22. 35	·01850			
	***	10. 15	·1014	23. 40	·01855			
21. 22	57. 25		***					
22. 50	21. 59. 45	11. 0:	·1026					
23. 50	22. 2. 35	11. 35	·1017					
			***					
		13. 4	·1020					
			***					
		13. 30	·1014					
			***					
		14. 26	·1022					
			***					
		15. 15	·1018					
		15. 47:	·1023					
		16. 30	·1002					
		18. 14:	·1030					
			***					
		20. 39	·1010					
		21. 1	·1016					
		22. 15	·1008					
		22. 30	·1000					
		23. 13	·1018					
		23. 50	·1012					
May 27		May 27		May 27		May 27		
0. 8	22. 3. 0	0. 5	·1018	0. 14	·01835	1. 40	59 ·0	61 ·0
0. 39	5. 30	0. 20	·1017	1. 30	·01772	3. 40	60 ·5	62 ·7
2. 44	8. 10	0. 39	·1024	2. 5	·01728	9. 40	63 ·5	64 ·5
5. 8	22. 6. 0	0. 53	·1013			23. 5	59 ·0	61 ·0
6. 30	21. 59. 15	1. 9	·1013	4. 10	·01532			
9. 14	22. 2. 0	1. 17	·1018					
9. 32	21. 58. 20	1. 25	·1010	5. 45	·01375			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 27		May 27		May 27				
h m	° ′ ″	h m		h m		h m	°	°
10. 50	22. 1. 15	2. 0	·1013	6. 59	·01305			
11. 17	21. 59. 20	2. 20	·1020	7. 39	·01252			
11. 57	22. 1. 30	2. 54	·1019	8. 25	·01205			
15. 8	2. 30	2. 46	·1030	9. 20	·01170			
15. 44:	7. 30	3. 13	·1016	10. 0	·01143			
16. 45	9. 35	3. 25	·1021	10. 59:	·01131			
18. 19	22. 0. 0	3. 47:	·1020	11. 57	·01183			
21. 27	21. 58. 0	4. 14	·1026	12. 56	·01285			
23. 59	22. 5. 45	4. 44	·1016	13. 25	·01325			
		4. 51	·1024	13. 55	·01360			
			***	14. 45	·01440			
		5. 4	·1018	15. 40	·01550			
			***	16. 10	·01594			
		5. 21	·1030	17. 33	·01780			
		5. 45	·1021	17. 41	·01772			
		6. 0	·1022	18. 47	·01840			
		6. 11	·1016	19. 1	·01830			
		6. 15	·1024	19. 40	·01843			
		6. 42	·1026		***			
		7. 29	·1018	21. 0	·01830			
			***		***			
		8. 10	·1025	21. 41	·01840			
		8. 25	·1018	22. 13	·01832			
		8. 50	·1018	22. 30	·01822			
		9. 20	·1024	23. 0	·01790			
		9. 25	·1022	23. 15	·01765			
		9. 40	·1026					
		10. 6	·1021					
		11. 32	·1027					
			***					
		14. 39	·1025					
		14. 59	·1020					
		15. 20	·1024					
		15. 40	·1020					
		16. 15:	·1028					
		16. 34	·1024					
		18. 45	·1032					
		19. 45	·1021					
		22. 45	·1013					
		23. 5	·1016					
		23. 15	·1014					
		23. 59	·1010					
May 28		May 28		May 28		May 28		
0. 17	22. 5. 30	0. 0	·1010	0. 0	·01690	9. 51	63·5	65·5
2. 27	9. 0	0. 15	·1008	0. 45	·01610	21. 40	58·0	58·5
3. 12	6. 30	0. 36	·1016	2. 0	·01450			
5. 44	4. 30	1. 35	·1004	2. 30	·01373			
6. 5	0. 35	2. 8:	·1017	3. 15	·01280			
7. 20	3. 20	2. 31	·1015	3. 58	·01180			
12. 0	0. 45	3. 7:	·1002	4. 30	·01220			
13. 37	2. 30	3. 35	·1020	6. 30	·01200			
15. 43	1. 20	4. 9	·1026	6. 45	·01188			
16. 39	22. 2. 0		***	10. 8	·01182			
20. 20	21. 59. 20	5. 15	·1022	11. 11:	·01175			
23. 59	22. 7. 0	6. 6	·1012	12. 9	·01218			
		6. 23	·1028	13. 25	·01310			
		6. 40	·1028	14. 0	·01360			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		May 28		May 28				
h m	° ′ ″	h m		h m		h m	°	°
		7. 10	·1020	14. 57	·01470			
		7. 20	·1028	15. 30	·01550			
		7. 36	·1020	16. 15	·01662			
		7. 57	·1022	17. 0	·01780			
		8. 25	·1019	17. 55	·01912			
		15. 0	·1028	18. 10	·01900			
		17. 30	·1024	18. 45	·01900			
		18. 38	·1026	19. 28	·01895			
		19. 37	·1018	20. 0	·01908			
		22. 30	·1006		***			
		23. 25	·1006	20. 30	·01907			
		23. 59	·1010	21. 0	·01900			
				21. 30	·01898			
				21. 40:	·01880			
				23. 59	·01820			
May 29		May 29		May 29		May 29		
0. 23	22. 6. 50	0. 0	·1010	0. 30	·01799	1. 40	59·0	60·0
3. 23	10. 35	0. 13	·1010	1. 0	·01770	3. 40	61·0	63·0
4. 6	7. 30		***	1. 55	·01748	9. 40	62·0	63·5
5. 9	7. 25	2. 40	·1018	2. 30	·01712	21. 40	56·0	58·0
5. 39	5. 30	3. 23	·1028	3. 53	·01580			
8. 33	2. 0	4. 6	·1001	4. 56	·01455			
9. 11	6. 25	4. 23	·1015	6. 0	·01355			
10. 3	1. 30	5. 0:	·1010	7. 35	·01225			
12. 22	2. 0	5. 35	·1020	8. 35	·01198			
12. 38	3. 35		***	9. 13	·01180			
13. 32	1. 30	6. 5	·1024	10. 0	·01165			
14. 31	3. 0		***	11. 11	·01134			
15. 12	22. 0. 25	6. 44	·1020	12. 15	·01155			
19. 13	21. 59. 45	7. 16	·1030	12. 35	·01150			
20. 46	56. 25		***	13. 13	·01152			
22. 42	21. 58. 30	8. 16	·1030	13. 44	·01171			
23. 59	22. 3. 0	8. 50	·1020	14. 32	·01230			
		9. 35:	·1024	15. 29	·01318			
		10. 15	·1016	16. 30	·01440			
		11. 0	·1020	18. 35	·01660			
		11. 44	·1017	21. 29:	·01780			
		12. 30	·1027	23. 59	·01672			
		13. 15	·1019					
		14. 25	·1016					
		15. 0	·1022					
		15. 50	·1019					
		18. 30	·1025					
		20. 15	·1021					
		21. 45	·1007					
		22. 53	·1006					
		23. 59	·1008					
May 30		May 30		May 30		May 30		
0. 13	22. 4. 0	0. 0	·1008	1. 0	·01592	1. 40	60·0	62·0
2. 51	9. 35	0. 55	·1008	2. 3	·01500	3. 40	61·0	63·5
7. 2	4. 25	2. 54	·1020	2. 28	·01460	9. 10	54·0	65·5
10. 22	2. 25	3. 21	·1011	3. 10	·01360	21. 40	58·5	60·0
10. 53	1. 0	4. 16	·1011		·01390			
11. 32	2. 25	4. 34	·1017	3. 45	·01290			
16. 35	22. 1. 20	4. 55	·1015	4. 7	·01210			
	***	5. 10	·1022		·01235			
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 30		May 30		May 30				
h m	° ′ ″	h m		h m		h m	°	°
16. 52	21. 59. 30	5. 45	·1012	4. 52	·01130			
					·01142			
18. 22	59. 30	6. 14	·1010	5. 10	·01148			
18. 40	57. 35				·01490			
19. 32	58. 0	7. 8	·1020	6. 23	·01332			
20. 42	56. 30	7. 40	·1016	6. 52	·01278			
21. 33	21. 59. 0	8. 0	·1020	7. 17	·01228			
22. 12	22. 3. 0	9. 48	·1015	7. 35	·01215			
23. 2	5. 30			8. 42	·01210			
23. 59	6. 30	12. 40	·1017	9. 40	·01202			
		14. 14	·1021	10. 47:	·01175			
		15. 23	·1019	11. 45	·01214			
				14. 29:	·01496			
		18. 10	·1026	17. 4	·01920			
		18. 36:	·1021	17. 10	·01912			
		19. 0	·1024	18. 10	·01930			
		20. 0	·1018	18. 45	·01934			
		20. 8	·1025	19. 31	·01947			
				20. 0	·01926			
		20. 30	·1012	20. 45	·01930			
		21. 13:	·0992	21. 16	·01940			
				22. 10	·01938			
		22. 34	·0984	23. 22:	·01777			
				23. 59	·01665			
		23. 59	·0987					
May 31		May 31		May 31		May 31		
0. 3	22. 5. 30	0. 0	·0987	0. 47	·01485	1. 40	64 ·0	66 ·0
1. 57	8. 0	0. 45	·0992	1. 57	·01218	3. 40	66 ·0	68 ·0
6. 48	22. 1. 30	1. 30	·0988	2. 10	·01170	9. 50	68 ·5	71 ·5
10. 33	21. 58. 25	1. 55	·0995	3. 43:	·01258	21. 40	60 ·0	62 ·5
11. 13	22. 0. 35			4. 52	·01270			
12. 40	0. 50	2. 58	·0990	6. 5	·01287			
13. 23	4. 0	3. 38	·1000	7. 12	·01270			
		4. 21	·0986	8. 53	·01260			
14. 29	1. 0			9. 39	·01267			
		4. 53	·0994	11. 12:	·01265			
14. 47	22. 4. 0			12. 30	·01350			
		5. 34	·0984	12. 43	·01370			
16. 19	21. 56. 30			14. 22:	·01557			
		6. 31	·1005	16. 22	·01965			
17. 11	22. 0. 0			18. 37	·01940			
17. 27	21. 57. 20	8. 5	·1016	19. 51	·01920			
18. 13	59. 45	8. 35	·1016	21. 10	·01947			
19. 2	59. 0	8. 50	·1009	22. 8	·01920			
		9. 20	·1006	23. 53	·01758			
20. 4	55. 30	9. 34	·1008	23. 59	·01740			
20. 22	21. 58. 0	10. 5	·1002					
20. 42	21. 56. 30	10. 42	·1015					
22. 38	22. 0. 0							
23. 7	3. 0	11. 25	·1010					
23. 48	6. 0	12. 8	·1015					
		13. 20	·1011					
		14. 1	·1015					
		14. 28	·1007					
		15. 30	·1018					
		16. 30	·1014					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 31 h m		h m		h m	°	°
		17. 40	·1019					
		18. 25	·1016					
		19. 4	·1066					
		20. 7	·1012					
		20. 24	·1015					
		22. 34	·0980					
		22. 50	·0992					
		23. 14	·0990					
		23. 45	·0996					
June 1		June 1		June 1		June 1		
0. 16	22. 8. 0	0. 0	·1000	0. 15	·01700	1. 40	64 ·0	66 ·0
2. 21	9. 35	0. 17	·1002	1. 30	·01505	3. 40	69 ·5	69 ·5
3. 17	22. 8. 30	0. 35	·0995			9. 40	69 ·0	71 ·0
6. 35	21. 57. 0	1. 0	·0994	2. 45	·01220	21. 40	59 ·0	61 ·0
12. 2	22. 1. 0	1. 30	·1004	3. 38	·01250			
21. 40	0. 0	1. 36	·0998		·01300			
23. 59	7. 30	1. 47	·1004	4. 7	·01270			
		2. 13	·0993		·01305			
		2. 40	·1002	5. 0	·01295			
				6. 0	·01295			
		3. 20	·0988		·01380			
		3. 41	·0986	6. 52	·01304			
		4. 26	·0998	8. 10:	·01271			
				9. 6	·01290			
		5. 45	·1002	9. 59	·01285			
				10. 44	·01292			
		6. 45	·1000	12. 14	·01402			
				14. 23:	·01620			
		7. 45	·1003	16. 25	·01970			
		8. 25	·0999	17. 24	·01960			
		8. 45	·1002	18. 59	·01960			
		9. 24	·0999	21. 50	·01928			
		10. 35	·1009	22. 0	·01885			
		11. 8	·1001	22. 45	·01905			
		12. 5	·1000	23. 59	·01905			
		14. 15	·1009					
		16. 20	·1006					
		17. 15	·1016					
		17. 40	·1014					
		19. 30	·1014					
		19. 55	·1004					
		20. 35	·1004					
		22. 33	·1002					
		22. 50	·1006					
		23. 35	·1001					
June 2		June 2		June 2		June 2		
1. 40	22. 9. 22*	1. 40	·1015	0. 40	·01920	1. 40	62 ·0	63 ·0
3. 40	7. 20*	3. 40	·1018*	1. 30	·01955	3. 40	63 ·5	65 ·0
9. 40	1. 38*	9. 40	·1023*	2. 38	·01948	9. 40	63 ·0	65 ·0
21. 40	9. 49*	21. 40	·1016*	4. 0	·01900	21. 40	57 ·0	59 ·0
				4. 43	·01848			
				5. 30	·01790			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		June 2 h m		h m	°	°
				7. 4:	·01701			
				8. 32	·01685			
				9. 45	·01673			
				10. 54:	·01680			
				11. 39	·01727			
				12. 10	·01770			
				12. 47	·01830			
				13. 0	·01935			
				13. 30	·01910			
				13. 50	·01957			
				15. 0	·01956			
				16. 7	·01959			
				17. 30	·01970			
				19. 3	·01945			
				19. 15	·01952			
				20. 0	·01950			
				20. 45	·01940			
				21. 30	·01930			
				22. 2	·01930			
				22. 53:	·01925			
				23. 25	·01890			
				23. 59	·01841			
June 3		June 3		June 3		June 3		
	'(†)		(†)		(†)	1. 40	59 ·0	62 ·0
6. 10	22. 2. 0	6. 8	·1025	6. 15	·01075	9. 40	63 ·0	65 ·0
7. 23	0. 35	6. 51	·1020	7. 3	·01055	23. 6	58 ·0	60 ·0
8. 17	22. 1. 10	7. 28	·1021	7. 37	·01050			
9. 35	21. 58. 30	9. 4	·1026	8. 28	·01040			
12. 10	22. 1. 25	9. 13	·1022	9. 3	·01058			
13. 25	21. 59. 20	9. 38	·1024	9. 32	·01052			
14. 26	22. 2. 0		***	11. 7:	·01070			
15. 26	21. 55. 25	10. 53	·1024	15. 5	·01228			
16. 35	22. 1. 30	11. 45	·1028	15. 8:	·01406			
18. 40	21. 55. 35	12. 0	·1024	16. 35	·01660			
21. 6	21. 55. 30	12. 8	·1028	17. 40	·01862			
23. 20	22. 2. 15		***	17. 55	·01825			
23. 59	3. 0	12. 39	·1022	18. 38	·01801			
		13. 35:	·1029	19. 15	·01800			
		14. 2	·1023	19. 30	·01805			
		15. 8	·1036	20. 30	·01800			
			***	22. 0	·01825			
		15. 40	·1026	22. 27	·01822			
		16. 57	·1020	22. 37	·01828			
		17. 50	·1032	23. 25	·01826			
		20. 23	·1016	23. 59	·01819			
		21. 23	·1015					
		22. 2	·1009					
		22. 15	·1012					
		23. 5	·1002					
		23. 59	·1003					
June 4		June 4		June 4		June 4		
0. 7	22. 3. 30	0. 0	·1003	0. 15	·01809	9. 50	65 ·5	68 ·5
1. 20	7. 0	0. 50	·1004	1. 55:	·01690	21. 40	58 ·0	59 ·0
5. 14	2. 30	3. 23	·1021	4. 13	·01305			
6. 21	0. 20	4. 13	·1020	4. 52	·01152			
7. 16	22. 1. 15	4. 27	·1024	5. 17	·01065			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 4 h m	° ′ ″	June 4 h m		June 4 h m		h m	°	°
7. 40	21. 58. 40	4. 43	·1020	6. 39	·01123			
13. 43	22. 0. 0	5. 30	·1025	8. 55	·01122			
15. 15	21. 59. 0	6. 23	·1014	9. 39	·01133			
16. 7	22. 0. 35	6. 52	·1024	10. 57	·01061			
17. 9	21. 56. 50	7. 32	·1016	13. 43:	·01225			
18. 3	54. 45	7. 46	·1018	16. 35	·01630			
21. 15	21. 57. 40	9. 14	·1010	18. 7	·01882			
23. 59	22. 4. 20	11. 8	·1010	18. 21	·01860			
		12. 35	·1013	19. 33	·01845			
		12. 45	·1017	20. 15	·01834			
			***	21. 10	·01832			
		13. 41	·1014	21. 44	·01835			
		13. 50	·1019	21. 52	·01850			
		15. 7	·1014	22. 30	·01855			
		17. 4	·1021	23. 59	·01860			
		22. 23	·1020					
		23. 0	·1014					
		23. 47	·1016					
		23. 59	·1014					
June 5		June 5		June 5		June 5		
0. 20	22. 5. 0	0. 0	·1014	0. 45	·01870	1. 40	59 ·0	63 ·0
2. 55	22. 6. 50	0. 30	·1011	2. 0	·01783	3. 40	61 ·5	63 ·0
8. 35	21. 59. 50	1. 45	·1013	3. 32	·01483	9. 40	64 ·3	67 ·7
8. 55	57. 30	2. 50	·1020	4. 32	·01380	21. 40	58 ·0	59 ·8
9. 25	59. 0	3. 25	·1015	5. 14	·01262			
9. 44	21. 57. 30	3. 33	·1020	6. 8	·01100			
11. 2	22. 0. 20	3. 53	·1017	6. 33	·01128			
11. 29	21. 58. 30	4. 36	·1020	7. 24	·01132			
11. 51	59. 30	5. 2	·1016	8. 2	·01125			
14. 38	57. 45	5. 32	·1021	9. 0	·01153			
15. 43	58. 45	5. 45	·1008	9. 45	·01149			
19. 25	55. 25	6. 34	·1024	10. 13	·01130			
21. 8	55. 30	6. 55	·1018	10. 42	·01115			
21. 38	21. 57. 45	7. 35:	·1023	11. 22	·01120			
22. 53	22. 0. 0	8. 14	·1016	12. 0	·01143			
23. 59	3. 15	8. 34	·1016	12. 30	·01162			
		8. 55	·1027	14. 46:	·01335			
		9. 34	·1012	16. 46	·01603			
		10. 15	·1016	17. 42	·01740			
		11. 0	·1016	18. 38	·01890			
		11. 40	·1009	18. 48	·01877			
		13. 38	·1010	19. 48	·01879			
		14. 37	·1018	21. 41	·01845			
		16. 4	·1015	23. 59	·01860			
		19. 23	·1016					
		22. 53	·1002					
		23. 10	·1005					
		23. 59	·1006					
June 6		June 6		June 6		June 6		
0. 16	22. 3. 30	0. 0	·1006	0. 15	·01862	1. 40	60 ·3	63 ·0
1. 30	6. 25	1. 5	·1011	1. 48	·01808	3. 40	62 ·0	63 ·0
7. 1	22. 1. 30	1. 50	·1006	3. 24	·01565	9. 40	63 ·0	64 ·8
12. 1	21. 59. 30	2. 50	·1016	6. 13:	·01195	21. 40	57 ·0	58 ·3
12. 35	22. 0. 35	3. 44	·1018	8. 57	·01190			
16. 22	21. 59. 30	4. 45	·1017	9. 59	·01215			
19. 36	55. 30	5. 15	·1021	10. 42	·01225			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 6		June 6		June 6				
h m	° ′ ″	h m		h m		h m	°	°
21. 20	21. 58. 30	6. 0	·1020	11. 15	·01250			
22. 7	22. 2. 25	8. 0	·1025	11. 45	·01275			
22. 38	2. 0	8. 35	·1023	12. 38	·01345			
23. 58	6. 0	9. 0	·1027	13. 33	·01409			
		9. 15	·1023	14. 55:	·01522			
		10. 0	·1026	16. 29	·01717			
		11. 8	·1022	17. 37	(·01874			
		11. 30	·1026		(·01860			
		12. 25	·1021	18. 48	·01865			
		13. 8	·1023	19. 55	·01865			
		18. 53	·1022	19. 58	·01827			
		21. 10	·1002	20. 30	·01848			
		22. 28	·1002	21. 7	·01842			
		23. 59	·1014	21. 45	·01849			
				22. 35	·01822			
				23. 6	·01825			
				23. 59	·01810			
June 7		June 7		June 7		June 7		
0. 10	22. 7. 0	0. 0	·1014	0. 17	·01808	1. 40	60 ·0	62 ·0
2. 12	8. 50	1. 30	·1008	1. 35	·01771	3. 40	60 ·0	63 ·0
4. 0	5. 30	2. 23	·1018	2. 37	·01650	9. 40	62 ·5	62 ·5
	(†)	2. 58	·1012	3. 46	·01502	21. 40	57 ·0	59 ·8
9. 30	1. 20	3. 53	·1020	4. 38	·01360			
14. 17	22. 0. 25		***	5. 0	·01307			
15. 33	21. 57. 30	4. 30	·1016		(†)			
16. 3	22. 0. 30	4. 47	·1021	8. 29	·01145			
16. 26	22. 1. 35		(†)	9. 23	·01185			
17. 15	21. 55. 30	8. 32	·1024	10. 42	·01272			
17. 56	56. 30	8. 50	·1021	11. 30	·01300			
20. 10	55. 30	9. 4	·1025	13. 10	·01330			
22. 7	21. 57. 30	11. 23	·1019	14. 33	·01347			
23. 59	22. 4. 0	11. 55	·1024	15. 35	·01393			
		12. 15	·1021	16. 15	·01460			
			***	17. 6	·01508			
		13. 33	·1021	17. 44	·01573			
		13. 55	·1025	18. 45	·01645			
		14. 36	·1024	20. 5	·01760			
		15. 0	·1024	20. 45	·01810			
			***	21. 23	·01834			
		16. 5	·1016	22. 11	·01818			
		16. 50	·1024	22. 55	·01800			
		17. 25	·1020	23. 40	·01780			
		23. 15	·1001	23. 59	·01765			
		23. 59	·1002					
June 8		June 8		June 8		June 8		
0. 30	22. 5. 40	0. 0	·1002	0. 30	·01720	1. 40	60 ·0	63 ·0
1. 12	7. 30	0. 30	·1000	1. 52:	·01570	3. 40	63 ·5	65 ·0
4. 43	4. 0	1. 5	·1008	3. 0	·01318	9. 40	65 ·0	66 ·0
6. 59	0. 0	1. 32	·1004	3. 47	·01140	21. 40	58 ·7	61 ·5
7. 49	1. 20		***	4. 30	·00985			
12. 48	0. 30	3. 34	·1016	4. 46	·00995			
13. 25	2. 30	4. 10	·1012	5. 55	·00990			
15. 0	0. 50		***	7. 10	·01004			
15. 35	22. 1. 45	4. 59	·1015	8. 30	·01000			
16. 20	21. 58. 30		***	9. 18	·01005			
16. 42	59. 10	5. 38	·1008	9. 50	·01015			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 8		June 8		June 8				
h m	° ′ ″	h m		h m		h m	°	°
17. 25	21. 57. 0	6. 25	·1010	11. 17:	·01002			
19. 1	55. 0	7. 7	·1022	12. 15	·01050			
19. 16	56. 35	7. 50	·1018	13. 3	·01100			
20. 25	21. 55. 50	9. 25	·1012	14. 33	·01240			
22. 10	22. 1. 35	9. 40	·1019	15. 45	·01392			
23. 23	7. 20	10. 30	·1015	16. 33	·01485			
23. 59	8. 0	11. 50	·1010	17. 47	·01660			
		13. 45	·1021	18. 53	·01818			
		15. 28	·1017	18. 57	·01802			
		16. 0	·1021	19. 5	·01810			
		16. 47	·1019	20. 14	·01800			
		17. 8	·1021	21. 45	·01816			
		21. 30	·1006	22. 56	·01809			
		23. 37	·1006	23. 15	·01770			
		23. 59	·1009	23. 45	·01740			
				23. 59	·01720			
June 9		June 9		June 9		June 9		
0. 32	22. 8. 30	0. 0	·1010	0. 30	·01676	1. 40	60 ·0	63 ·0
1. 42	8. 30	1. 6	·1016	3. 17:	·01400	3. 40	62 ·0	63 ·0
6. 3	2. 30	2. 0	·1012	4. 47	·01130	9. 40	63 ·5	66 ·5
8. 46	0. 50	2. 55	·1027	5. 44	·00962	21. 40	60 ·0	62 ·0
11. 10	1. 30	3. 17	·1018	5. 58	·00978			
11. 33	22. 3. 0	3. 43	·1023	7. 20	·00970			
12. 20	21. 59. 40	4. 25	·1019	8. 15	·00965			
13. 26	22. 1. 20	7. 6	·1022	9. 30	·00995			
16. 3	22. 0. 40	11. 30	·1020	10. 17	·00995			
17. 33	21. 57. 50	12. 6	·1024	11. 15	·00985			
17. 45	59. 30	12. 30	·1021	12. 4	·00985			
19. 53	57. 30	16. 0	·1025	14. 14:	·01090			
21. 22	21. 57. 30	21. 15	·1012	15. 56	·01275			
23. 59	22. 6. 30	21. 37	·1017	17. 7	·01425			
		22. 55	·1007	18. 15	·01575			
		23. 59	·1008	19. 38	·01762			
				20. 0	·01795			
				20. 17	·01818			
				20. 45	·01792			
				21. 22	·01780			
				22. 33	·01767			
				23. 0	·01749			
				23. 59	·01702			
June 10		June 10		June 10		June 10		
0. 15	22. 7. 25	0. 0	·1008	0. 35	·01685	1. 40	63 ·0	65 ·0
1. 51	9. 40	0. 30	·1006	1. 0	·01665	3. 40	64 ·0	65 ·0
2. 47	6. 35	2. 0	·1010	2. 42:	·01455	9. 40	65 ·8	67 ·0
6. 25	0. 0	2. 54	·1001	4. 7	·01110	23. 7	59 ·5	60 ·5
9. 0	22. 0. 35	3. 20	·1006	4. 35	·01125			
9. 36	21. 59. 30	3. 30	·1003	6. 45	·01100			
10. 43	22. 0. 30	4. 6	·1006	9. 22	·01082			
11. 43	21. 58. 30	4. 25	·1001	10. 7	·01085			
13. 32	59. 45	5. 10	·1009	11. 18:	·01085			
19. 35	56. 25	7. 25	·1014	12. 12	·01162			
22. 2	21. 57. 35	10. 55	·1006	13. 10	·01290			
23. 59	22. 3. 25	11. 6	·1013	14. 25	·01480			
		13. 5	·1008	15. 9	·01610			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	June 10 h m		June 10 h m		h m	°	°
		18. 30	·1018	16. 17	·01838			
		21. 30	·1002	16. 23	·01825			
		23. 10	·1008	17. 17	·01810			
		23. 59	·1013	18. 45	·01810			
				19. 43	·01812			
				20. 40	·01810			
				22. 23	·01830			
				23. 20	·01810			
				23. 59	·01780			
June 11		June 11		June 11		June 11		
0. 0	22. 3. 30	0. 0	·1013	0. 30	·01752	9. 57	65 ·5	67 ·5
1. 18:	6. 20	1. 40	·1014	1. 55:	·01660	21. 40	62 ·0	63 ·0
3. 7	2. 35	4. 15	·1020	3. 22	·01440			
6. 31	22. 3. 25	5. 0	·1034	4. 23	·01220			
7. 19	21. 59. 0	5. 23	·1032	5. 42	·00955			
8. 5	22. 1. 30	5. 34	·1026	6. 35	·00980			
12. 26	22. 0. 15	6. 0	·1034	6. 39	·00978			
12. 52	21. 57. 35	6. 14	·1026	6. 57	·00970			
13. 22	21. 58. 20	6. 35	·1034	7. 23	·00990			
13. 46	22. 2. 50	6. 59	·1014	8. 10	·01000			
14. 12	21. 57. 45	7. 25	·1026	8. 47	·01008			
14. 40	22. 3. 0	7. 53	·1028	9. 10	·01012			
15. 22	21. 57. 45	9. 16	·1021	9. 42	·01010			
16. 17	53. 0	9. 37	·1028	10. 37	·00990			
16. 52	50. 20	9. 43	·1023	10. 43	·00978			
17. 2	52. 40		***	10. 55	·00990			
17. 17	50. 0	10. 25	·1033	11. 10	·00984			
17. 27	52. 0	10. 30	·1020	11. 35	·00980			
17. 35	49. 25	10. 41	·1033	12. 20	·01005			
18. 5:	55. 0	10. 50	·1030	13. 40	·01088			
18. 32	52. 35		***	13. 52	·01080			
19. 0	54. 30	11. 15	·1034	14. 0	·01085			
19. 16	59. 0	11. 30	·1024	14. 5	·01080			
19. 53	56. 50	11. 45	·1028	14. 14	·01090			
	***	12. 0	·1022	14. 33	·01090			
20. 22	59. 0	12. 20	·1032	14. 45	·01080			
20. 47	56. 0	13. 8	·1018	15. 13	·01080			
21. 12	56. 35	13. 37	·1037	15. 30	·01092			
21. 22	21. 53. 0	13. 45	·1032	15. 45	·01025			
21. 48	22. 0. 0		***	16. 0	·01030			
22. 13	21. 59. 35	14. 10	·1036	16. 20	·01052			
22. 42	22. 4. 30		***	16. 45	·01180			
23. 59	8. 0	14. 46	·1032	17. 3	·01250			
		15. 0	·1033	17. 27	·01285			
			***	17. 30	·01300			
		15. 38	·1018	17. 45	·01330			
		15. 55	·1027	18. 29	·01370			
		16. 6	·1023	19. 55	·01508			
		16. 19	·1027	20. 47	·01572			
		16. 52	·0992	20. 58	·01582			
		17. 46	·1004	21. 23	·01562			
		18. 30	·0992	21. 45	·01578			
		19. 15	·1001	22. 31	·01592			
		19. 46	·0994	22. 52	·01597			
			***	23. 59	·01551			
		20. 15	·1004					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	June 11 h m		h m		h m	°	°
		21. 35	·1004					
		22. 8	·0996					
		22. 23	·1002					
		22. 35	·0997					
		23. 6	·1002					
		23. 15	·0998					
		23. 45	·1004					
		23. 53	·1000					
		23. 59	·1002					
June 12		June 12		June 12		June 12		
0. 10	22. 6. 50	0. 0	·1003	1. 0	·01515	1. 40	64 ·0	65 ·0
1. 45	11. 30	0. 10	·1006	1. 57	·01490	3. 40	65 ·0	67 ·0
4. 47	8. 35	0. 45	·1000	2. 43	·01452	9. 40	67 ·0	68 ·5
5. 48	4. 10	0. 54	·1010	4. 0	·01330	21. 40	60 ·5	61 ·2
6. 47	1. 0	1. 6	·1004	4. 6	·01310			
7. 35	2. 25	1. 17	·1017	5. 33	·01102			
8. 34	22. 0. 15	1. 36	·1006	5. 45	·01122			
8. 46	21. 58. 0	1. 48	·1012	5. 55	·01120			
9. 38	22. 1. 30	2. 0	·1000	6. 20	·01145			
10. 5	21. 59. 35	2. 11	·1006	6. 52	·01170			
10. 46	22. 1. 30	2. 30	·0997	7. 12	·01175			
11. 0	21. 59. 30	3. 0	·1013	8. 7	·01165			
11. 32	22. 1. 0	4. 2	·1020	8. 14	·01154			
11. 43	22. 5. 50	4. 13	·1013	8. 28	·01162			
12. 3	21. 55. 30	4. 21	·1018	8. 38	·01160			
12. 29	49. 50	4. 38	·1013	8. 50	·01168			
12. 53	56. 0	5. 14	·1022	9. 40	·01168			
14. 0	57. 35	5. 31	·1017	10. 46	·01140			
14. 18	54. 40	5. 49	·1024	11. 45	·01140			
14. 32	55. 30	6. 0	·1019	11. 59:	·01120			
14. 53	53. 30	6. 15	·1020	12. 16	·01152			
15. 13	21. 55. 45	6. 25	·1013	14. 8	·01420			
15. 23	22. 4. 0	6. 50	·1024	14. 45	·01500			
15. 59	21. 58. 30	7. 0	·1021	15. 25	·01625			
16. 25	22. 6. 30	7. 17	·1026	16. 23	·01802			
16. 55	21. 57. 25	8. 0	·1021	16. 42	·01775			
17. 18	55. 0		***	17. 5	·01755			
17. 40	57. 0	8. 37	·1001	18. 0	·01788			
18. 15	55. 25	8. 53	·1010	18. 55	·01810			
18. 57	21. 59. 30	9. 33	·1001	20. 26	·01830			
19. 45	22. 1. 0	10. 4	·1001	20. 30	·01828			
20. 2	4. 50	11. 15	·1008	20. 47	·01827			
20. 34	7. 20	11. 37	·1002	22. 25	·01820			
21. 12	3. 0	11. 50	·1013	23. 45	·01718			
23. 36	5. 0	11. 57	·1013	23. 59	·01703			
23. 50	6. 0	12. 13	·1021					
		12. 30	·1019					
		12. 55	·1000					
		14. 0	·1016					
		14. 37	·1004					
		15. 0	·1014					
			***					
		15. 39	·0998					
		16. 15	·1003					
		16. 46	·1018					
		18. 2	·0999					
		18. 45	·1000					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	June 12 h m		h m		h m	°	°
		19. 0	·0993					
		19. 14	·0998					
		19. 23	·0996					
		19. 49	·0996					
		20. 0	·0992					
		20. 26	·1004					
		20. 44	·0989					
		21. 10	·0989					
		22. 16	·1000					
		23. 38	·0988					
		23. 55	·0970					
June 13		June 13		June 13		June 13		
0. 30	22. 4. 30	0. 31	·0989	0. 41	·01670	1. 40	62 ·2	63 ·5
2. 8	6. 30	0. 50	·1000	1. 47	·01540	3. 40	64 ·0	66 ·0
4. 4	3. 30	1. 32	·1008	2. 22	·01455	9. 40	65 ·0	67 ·0
6. 1	2. 15	1. 45	·1002	3. 15	·01317	21. 40	61 ·2	63 ·0
7. 17	22. 2. 35	2. 0	·1006	3. 55	·01210			
8. 0	21. 58. 0	2. 18	·1000	4. 5	·01160			
9. 13	22. 0. 50			4. 42	·01056			
9. 49	21. 59. 30	3. 8	·1016	5. 0	·01010			
10. 20	22. 1. 30	3. 35	·1022	5. 29	·00970			
10. 41	21. 59. 35	4. 15	·1010	5. 32	·00982			
11. 0	22. 0. 0	5. 15	·1008	5. 37	·00970			
11. 16	21. 59. 20	5. 31	·1020	5. 46	·00970			
11. 35	22. 1. 30	5. 48	·1009	6. 24	·00990			
13. 0	21. 57. 50	6. 25	·1021	7. 12	·00985			
14. 10	58. 50			7. 38	·00985			
14. 47	21. 56. 35	7. 2	·1020	8. 3	·01000			
16. 32	22. 0. 35	7. 20	·1026	8. 43	·01003			
17. 30	21. 57. 35	7. 45	·1016	9. 30	·01010			
20. 37	56. 30	8. 47	·1016	10. 41	·00989			
21. 30	21. 57. 30	8. 58	·1015	10. 50	·00992			
23. 40	22. 3. 30			11. 14	·00995			
23. 59	4. 50	10. 12	·1013	12. 23	·01050			
				14. 0	·01225			
		11. 27	·1020	15. 29	·01372			
		13. 0	·1010	16. 50	·01530			
		15. 7	·1015	18. 23	·01712			
		15. 50	·1012	19. 47	·01830			
		17. 15	·1016	20. 43	·01830			
		18. 15	·1017	21. 20	·01843			
		20. 40	·1000	22. 58	·01788			
		23. 30	·0991	23. 38	·01698			
		23. 50	·0993	23. 59	·01650			
June 14		June 14		June 14		June 14		
0. 12	22. 6. 0	0. 0	·0993	0. 5	·01520	1. 40	63 ·0	64 ·5
2. 30	3. 0	0. 30	·0988	0. 30	·01430	3. 40	66 ·2	68 ·5
4. 38	3. 0	0. 55	·1000	1. 30	·01265	9. 40	69 ·0	72 ·0
7. 15	22. 1. 0	1. 35	·1006	2. 0	·01160	21. 40	62 ·2	63 ·5
7. 42	21. 55. 30	3. 6	·1004	2. 36	·01072			
8. 17	22. 0. 0	4. 4	·1014	4. 0	·01162			
11. 58	22. 0. 30	4. 55	·1010	7. 10	·01200			
12. 28	21. 58. 0	5. 30	·0995	7. 28	·01197			
13. 18	59. 30	6. 23	·1012	7. 47	·01202			
13. 45	21. 56. 30	7. 27	·1010	8. 10	·01188			
14. 20	22. 2. 10	7. 45	·1023	8. 44	·01180			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 14 h m	° ′ ″	June 14 h m		June 14 h m		h m	°	°
14. 57	21. 54. 35	8. 15	·1008	9. 52	·01172			
16. 0	51. 30	8. 30	·1010	11. 4	·01170			
16. 46	50. 25	9. 16	·1001	12. 0	·01215			
18. 16	53. 30	10. 45	·0998	13. 21	·01330			
19. 58	53. 50	11. 53	·1001	15. 4	·01465			
21. 34	21. 56. 30	13. 0	·1004	16. 10	·01632			
23. 59	22. 0. 50	13. 20	·1013	17. 40	·01804			
				18. 20	·01875			
		14. 2	·1000	19. 3	·01882			
		15. 38	·1017	19. 30	·01870			
		16. 6	·1012	23. 0	·01860			
		16. 58	·1006	23. 37	·01842			
		18. 8	·1010	23. 59	·01840			
		21. 13	·0998					
		23. 59	·1002					
June 15		June 15		June 15		June 15		
0. 17	22. 2. 30	0. 0	·1003	0. 15	·01840	1. 40	64 ·0	65 ·5
1. 2	2. 50	0. 20	·1004	1. 34	·01810	3. 40	65 ·8	67 ·0
2. 35	6. 0	1. 0	·0999	3. 23	·01530	9. 58	67 ·5	68 ·5
3. 38	3. 25	2. 16	·1010	5. 45	·01150	21. 40	62 ·2	63 ·5
4. 18	6. 0	2. 32	·1003					
6. 32	4. 0	2. 56	·1010	9. 6	·01190			
6. 51	1. 30	3. 15	·1006	11. 15	·01150			
7. 34	22. 2. 30			11. 30	·01158			
7. 59	21. 59. 25	4. 30	·1015	12. 27	·01162			
8. 17	21. 57. 30	5. 0	·1012	13. 40	·01270			
8. 32	22. 0. 0			15. 8	·01406			
10. 10	22. 1. 35	6. 45	·1020	16. 48	·01585			
11. 17	21. 58. 35	7. 3	·1017	17. 48	·01702			
11. 50	22. 2. 35	7. 14	·1027	18. 20	·01750			
11. 47	21. 58. 35			18. 41	·01804			
12. 30	55. 30	8. 10	·1008	19. 4	·01832			
13. 30	58. 30	8. 18	·1014	19. 21	·01876			
15. 15	59. 25	8. 40	·1008	19. 45	·01852			
15. 54	57. 0	9. 55	·1004	20. 33	·01855			
16. 22	58. 20	10. 30	·1012	20. 40	·01845			
17. 13	56. 50	11. 10	·1008	21. 5	·01845			
17. 40	58. 0	11. 22	·1024	21. 10	·01848			
17. 45	59. 40	11. 40	·1020	21. 30	·01840			
18. 24	55. 30	12. 0	·1023	22. 0	·01850			
18. 33	58. 0	12. 35	·1006	22. 47	·01870			
18. 55	57. 55	13. 29	·1003	23. 30	·01848			
19. 12	55. 0	14. 20	·1013	23. 59	·01815			
19. 22	57. 30	16. 46	·1012					
20. 20	55. 0							
21. 25	21. 56. 30	18. 6	·1025					
22. 45	22. 5. 0	18. 30	·1021					
23. 34	7. 50	18. 45	·1024					
23. 59	8. 0	19. 10	·1010					
		19. 23	·1018					
		19. 45	·1010					
		22. 39	·0998					
		22. 59	·1000					
		23. 6	·1007					
		23. 55	·0990					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. and applied for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. and applied for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. (F.	(V. F.
h m	° ′ ″	June 15 h m		h m		h m	°	°
		23. 59	·0990					
June 16		June 16		June 16		June 16		
0. 17	22. 6. 35	0. 0	·0993	0. 3	·01858	1. 40	64	65
3. 19	10. 35	0. 20	·1000			3. 40	65	67
4. 4	8. 30	1. 7	·1003	3. 0	·01635	9. 40	66	68
4. 24	3. 35	1. 17	·1010			21. 40	65	65
5. 36	22. 5. 0	2. 0	·0998	4. 5	·01554			
8. 40	0. 20	2. 3	·1000	4. 44	·01525			
9. 4	22. 0. 0			6. 0	·01408			
9. 15	21. 58. 30	2. 44	·1020	6. 55	·01495			
9. 52	21. 58. 0	3. 26	·1022		***			
11. 17	22. 1. 0			8. 37	·01230			
11. 47	21. 57. 35	4. 8	·1002	8. 53	·01224			
12. 9	59. 0			9. 8	·01205			
12. 24	58. 0	5. 35	·1017	9. 24	·01202			
12. 40	59. 30	6. 10	·1020	9. 38	·01186			
13. 4	59. 25	7. 0	·1022	10. 45	·01130			
13. 25	21. 55. 30	7. 38	·1031	11. 55	·01105			
13. 53	21. 54. 0	8. 0	·1020	13. 0	·01070			
14. 43	22. 1. 25	8. 17	·1021	13. 24	·01072			
14. 55	22. 0. 0	8. 38	·1031	13. 36	·01105			
15. 38	21. 58. 35	8. 45	·1024	14. 12	·01178			
16. 17	21. 57. 30	9. 7	·1016	14. 53	·01218			
16. 24	22. 0. 0	9. 25	·1023	15. 0	·01222			
16. 34	21. 59. 25	10. 0	·1010	15. 34	·01272			
17. 20	22. 2. 30			16. 15	·01330			
18. 32	21. 59. 0	11. 0	·1016	16. 35	·01389			
19. 33	22. 3. 0	11. 32	·1022	18. 38	·01572			
20. 8	21. 57. 20	12. 0	·1018	18. 47	·01576			
20. 20	55. 35	12. 26	·1020					
20. 33	58. 35	12. 45	·1020	20. 52	·01648			
20. 45	21. 57. 0	13. 0	·1024	21. 43	·01658			
21. 12	22. 2. 50	13. 48	·1020	22. 23	·01656			
21. 31	1. 30		***	23. 22	·01635			
23. 25	0. 50	14. 0	·1015	23. 59	·01590			
23. 59	2. 25							
		16. 15	·1004					
		17. 35	·1017					
		19. 19	·1007					
		20. 3	·0988					
		21. 0	·1004					
		21. 19	·1002					
		22. 0	·1000					
		22. 35	·0986					
		23. 34	·1001					
			***					
		23. 59	·0998					
June 17		June 17		June 17		June 17		
0. 11	22. 2. 0	0. 0	·0998	0. 30	·01536	1. 40	65	68
1. 21	4. 45	0. 45	·1000	1. 20	·01423	3. 40	66	69
1. 33	4. 30	1. 17	·0995	2. 50	·01203	9. 40	67	67
3. 43	2. 30	1. 39	·0989	3. 18	·01146	23. 20	66	63
4. 25	4. 35	2. 25	·1002		·01170			
5. 8	3. 35	2. 47	·1002		***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. and applied for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. and applied for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. (F.	(V. F.
	° ′ ″	June 17 h m		June 17 h m		June 17 h m	°	°
June 17								
5. 21	22. 4. 35	3. 0	·0992	5. 20	·01178			
6. 34	1. 30	3. 19	·1006					
6. 53	22. 2. 35			7. 3	·01176			
8. 1	21. 59. 20	3. 45	·0998	7. 56	·01178			
8. 12	22. 2. 35	4. 0	·1000	8. 5	·01180			
8. 36	21. 59. 30	4. 17	·1000	8. 27	·01150			
8. 52	22. 1. 50	4. 37	·1008	9. 30	·01190			
9. 8	22. 1. 50		***	10. 44	·01198			
9. 28	21. 59. 45	5. 9	·1000	10. 57:	·01200			
9. 55	22. 1. 0			11. 10	·01212			
10. 28	21. 57. 25	6. 45	·1016	11. 37	·01260			
10. 47	22. 1. 0	7. 50	·1014	12. 30	·01370			
11. 20	21. 57. 35	8. 8	·1015	13. 22	·01480			
12. 13	22. 1. 0	8. 27	·1015	13. 27	·01492			
13. 3	21. 59. 0	8. 35	·1018	14. 22	·01640			
13. 38	22. 2. 25	9. 0	·1005	15. 2	·01840			
14. 36	21. 58. 0	10. 0	·1000	15. 24	·01828			
15. 47	57. 35	10. 25	·1001	16. 28	·01820			
16. 26	57. 30	10. 36	·1014	17. 32	·01830			
17. 0	57. 5	11. 14	·1002	18. 45	·01842			
19. 16	55. 35	11. 40	·1000	19. 0	·01850			
20. 55	21. 56. 0	11. 58	·1004	20. 55	·01842			
23. 59	22. 3. 50	13. 4	·1013	22. 0	·01864			
		13. 30	·1002	22. 35	·01835			
		14. 13	·1013	23. 18	·01710			
		14. 40	·1010	23. 59	·01700			
		16. 10	·1015					
		16. 36	·1012					
		17. 36	·1016					
		17. 55	·1013					
		18. 45:	·1017					
		19. 34	·1007					
		21. 23	·1006					
		22. 23	·1011					
		23. 59	·1000					
June 18		June 18		June 18		June 18		
0. 6	22. 3. 45	0. 0	·1000	0. 30	·01630	10. 3	71	70
1. 47	22. 6. 30	0. 24	·1004	1. 22	·01490	21. 40	61	63
7. 28	21. 59. 0		***	1. 43	·01425			
8. 31	22. 1. 0	0. 45	·1004	2. 8	·01330			
11. 28	21. 59. 30	1. 15	·0996	2. 35	·01196			
12. 7	22. 1. 0	2. 14	·1002	2. 58	·01085			
12. 38	21. 55. 30	3. 15	·1000	3. 50	·01150			
14. 16	22. 0. 0	3. 45:	·1012	4. 25	·01160			
14. 34	2. 30	8. 10	·1001	4. 45	·01178			
15. 10	22. 2. 30	13. 14	·1000	4. 57	·01170			
16. 22	21. 57. 30	13. 40	·1008	5. 18	·01190			
18. 2	56. 10	14. 30	·0998	6. 20	·01210			
20. 8	58. 30	16. 16	·1008	7. 29	·01235			
20. 28	21. 57. 30	16. 31	·1012	8. 30	·01230			
23. 10	22. 2. 0	16. 50	·1007	8. 50	·01225			
23. 42	5. 10	17. 4	·1000	9. 9	·01228			
23. 59	5. 25	17. 23	·1018	10. 5	·01222			
		18. 0	·1002	10. 45	·01204			
		18. 15	·1006	11. 17	·01210			
			***	13. 43:	·01402			
		18. 53	·1000	16. 25	·01878			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Greenwich Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F.	Of V. F.
h m	° ′ ″	June18 h m		June18 h m		h m		
		10. 37	·1824	16. 35	·01867			
		21. 46	·0994	19. 15	·01865			
		23. 59	·0998	20. 45	·01864			
				22. 46	·01876			
				23. 59	·01825			
June19		June19		June19		June19		
0. 10	22. 5. 30	0. 0	·0993	1. 0	·01795	1. 40	65 ·0	66 ·0
1. 28	6. 30	1. 6	·0996	2. 7	·[illegible]	3. 40	[illegible]	68 ·0
3. 49	4. 10	1. 35	·1002	3. 5	·01424	9. 40	66 ·2	68 ·5
5. 7	1. 30	2. 0	·[illegible]	3. 55	·01268	21. 40	56 ·0	[illegible]
8. 8	22. 1. 0	5. 30	·1015	4. 42	·[illegible]			
8. 40	21. 59. 0	6. 10	·1006	[illegible]	·[illegible]			
12. 30	22. 1. 0	6. 40	·1012	7. 2	·[illegible]			
12. 5	22. 0. 50	6. 55	·1008	7. 30	·01142			
12. 26	21. 59. 0	8. 5	·1020	8. [illegible]	·01135			
13. 45	21. 58. 0	[illegible]	·1016	10. [illegible]	·01175			
14. 47	22. 0. 0	10. 50	·1016	12. 50	·01370			
15. 39	21. 58. 35	11. 6	·1013	13. 20	·01460			
16. 17	59. 30	11. [illegible]	·1018	14. 0	·[illegible]			
17. 17	58. 0	12. 16	·1020	14. 46	·01725			
20. 2	56. 10	14. 30	·1015	15. 10	·[illegible]			
20. 46	54. 15	14. 51	·1020	15. 20	·[illegible]			
21. 22	21. 59. 30	15. 20	·1016	16. 18	·01818			
23. 56	22. 5. 0	17. 0	·1023	17. 50	·01840			
		[illegible]	·1024	[illegible]	·01838			
		21. 7	·1014	20. [illegible]	·01832			
		23. 35	·1015	21. 0	·[illegible]			
				22. [illegible]	·01815			
				23. 22	·01782			
				[illegible]	·01765			
June20		June20		June20		June20		
[illegible]	22. 6. 30	0. 15	·1022	0. 15	·[illegible]	1. 40	60 ·0	61 ·5
2. 34	5. 35	1. 30	·1016	2. [illegible]	·01617	3. 40	61 ·0	63 ·0
5. 13	0. 45	2. 5	·1018	[illegible]	·[illegible]	9. 40	64 ·0	65 ·0
7. 1	0. 30	2. 50	·1010	4. 53	·01155	21. 40	57 ·0	[illegible]
8. 46	2. 10	3. 21	·1014	5. 40	·01008			
[illegible]	1. 20		[illegible]	8. 33	·[illegible]			
14. 1	2. 30	3. 45	·1006	8. 45	·[illegible]			
15. 28	1. 30		[illegible]	9. 42	·01052			
15. 47	22. 2. 20	5. 45	·1014	10. 20	·01048			
[illegible]	21. 57. 30		[illegible]	11. 25	·01031			
21. 32	21. 59. 30	7. 7	·1024	12. 10	·01075			
23. 40	22. 5. 0	9. 40	·1020	12. 50	·01135			
		13. 0	·1021	13. 30	·01245			
		18. 5	·1031	14. 18	·[illegible]			
		19. 10	·1028	14. 56	·01475			
		19. 40	·1020	15. 31	·[illegible]			
		20. 4	·1021	16. 32	·01815			
		21. 0	·1012	16. 38	·01803			
		23. 30	·1011	18. 29	·01780			
				18. 52	·01778			
				20. 18	{·01795 ·01785			
				21. 33	·01792			
				22. 27	·01733			
				22. 37	·01728			

Greenwich Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F.	Of V. F.
h m	° ′ ″	h m		June20 h m		h m		
				23. 6	·[illegible]			
				23. 50	·[illegible]			
June21		June21		June21		June21		
0. 17	22. 6. 30	0. 0	·101[illegible]	0. 0	·[illegible]	1. 40	62 ·0	64 ·0
1. 10	8. 30	1. [illegible]	·[illegible]	1. 39.	·01320	3. 40	63 ·0	[illegible]
3. 33	6. 30	2. 23	·1003	2. 57	·00977	9. 40	[illegible]	[illegible]
5. 16	2. 30	3. 7	·1001	3. 5	·00990	21. 40	62 ·[illegible]	63 ·0
[illegible]	2. 0	[illegible]	·1005	4. 30	·01070			
[illegible]	[illegible]	[illegible]	·1016	6. 58	·01075			
11. 5	3. 15	6. 57	·1022	8. 0	·[illegible]			
12. 36	1. 30	8. 38	·1020	8. 57	·01075			
13. 26	2. 35	9. 0	·1024	10. 47	·01075			
16. 20	22. [illegible]	10. 37	·1024	11. 17	·01078			
17. 13	21. 58. 0	11. 0	·1030	12. 13	·01122			
21. 15	21. 59. 10	13. 0	·1025	14. 3	·[illegible]			
23. 8	22. 5. 0	16. 35	·[illegible]	17. 28.	·[illegible]			
23. 59	6. 0	[illegible]	·1024	20. 0	·01580			
		20. 30	·1026	[illegible]	·01605			
		[illegible]	·1008	[illegible]	·01588			
				23. 59	·01475			
June22		June22		June22		June22		
0. 7	22. [illegible] 0	0. 0	·1007	1. 30	·01185	1. 40	[illegible]	67 ·0
0. 55	5. 45	0. 25	·[illegible]	1. 50	[illegible]	3. 40	[illegible]	68 ·0
2. 21	7. 20	1. 23	·1004		[illegible]	9. 40	70 ·0	[illegible]
4. 55	2. 30	2. 8	·1002	2. 25	·01177	21. 40	66 ·0	[illegible]
6. 35	1. 15	3. 0	·1008	2. 50	·01220			
[illegible]	2. 15		[illegible]	3. 55	[illegible]			
10. 25	0. 30	4. 5	·1002	4. 57	·[illegible]			
11. [illegible]	2. [illegible]		[illegible]	6. 1	[illegible]			
11. 35	22. 6. 30	6. 45	·1010	7. 7	[illegible]			
12. 17	21. 56. 0	7. 30	·1021	8. 12	[illegible]			
13. 31	22. 1. 0		[illegible]	8. 33	[illegible]			
[illegible]	21. 59. 30	[illegible]	·1018	9. 25	·01232			
14. 20	22. 0. 35	8. 55	·1025	10. 20	·01250			
14. 47	[illegible]	[illegible]	·1022	11. 25	[illegible]			
15. 12	3. 25	9. 24	·[illegible]	11. 59	[illegible]			
15. 37	1. 30	9. 34	·[illegible]	[illegible]	·01453			
16. 5	22. 4. 30	10. 5	·[illegible]	13. 55	·01525			
17. 17	21. 58. 50	10. 38	·1032	15. 0	·01644			
17. 38	59. 30	11. 0	[illegible]	16. 0	·01753			
18. 2	58. 0	[illegible]	·1033	17. 29	·01900			
18. 20	59. 20	11. 25	·1045	18. 16	·01872			
		[illegible]	·1040	19. 0	·01875			
19. 52	21. 57. 25	11. 51	·1026	20. 8	·01883			
	[illegible]	12. 8	·1042	21. 55.	·01900			
21. 53	22. 0. 0		[illegible]	23. 59	·01812			
23. 32	6. 0	12. 30	·1021					
23. 59	5. 50	12. 36	·1025					
		13. 8	·1020					
		13. 44	·1032					
		14. 0	·1027					
		14. 20.	·1034					
		14. 55	·1026					
		15. 14	·1032					
		15. 25	·1027					
		15. 57	·1030					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June22 h m		h m		h m	°	°
		17. 0	·1038					
		20. 0	·1027					
		21. 8	·1014					
			***					
		23. 13	·1007					
		23. 30	·1014					
		23. 59	·1010					
June23		June23		June23		June23		
0. 25	22. 7. 0	0. 5	·1007	0. 20	·01787	1. 40	69 ·0	71 ·0
1. 2	7. 30	0. 36	·1023	2. 3:	·01545	3. 40	71 ·0	73 ·0
2. 10	10. 15	0. 52	·1016	3. 16	·01288	9. 40	74 ·0	77 ·0
3. 34	7. 0		***	3. 23	·01308	21. 40	63 ·0	64 ·0
3. 44	8. 15	1. 30	·1022	3. 37	·01308			
4. 0	5. 35	1. 45	·1014	3. 47	·01325			
4. 53	6. 30	2. 7:	·1012	4. 7	·01300			
5. 52	2. 50	2. 26	·1000	4. 11	·01302			
6. 31	3. 45	2. 52	·1020	4. 15	·01285			
7. 8	1. 0	3. 9	·1004	4. 25	·01309			
7. 46	1. 35	3. 34	·1018	4. 28	·01300			
8. 18	22. 0. 0	3. 40	·1008	4. 45	·01300			
8. 42	21. 56. 10	3. 50	·1024	5. 14	·01270			
9. 13	22. 0. 0		***		***			
10. 32	22. 0. 0	4. 16	·0992	6. 25	·01260			
11. 31	21. 58. 30	4. 27	·1030	6. 40	·01253			
13. 25	22. 2. 0	4. 45	·1034	6. 49	·01224			
13. 52	0. 45	5. 15	·0984	6. 54	·01225			
14. 58	2. 30	5. 35	·0999	7. 5	·01203			
15. 17	0. 35	5. 45	·0996	8. 20	·01230			
16. 15:	22. 4. 50	6. 21	·1023	8. 38	·01125			
18. 49	21. 56. 30	6. 30	·1010	9. 0	·01125			
19. 40	21. 59. 0	7. 6	·0987	9. 13	·01120			
20. 20	22. 0. 0	7. 15	·1000	9. 35	·01126			
20. 39	21. 56. 0	7. 38	·1006	10. 58:	·01153			
21. 55	21. 59. 30	8. 3	·0997	11. 55	·01227			
23. 17	22. 7. 0	8. 13	·1001	12. 31	·01295			
23. 59	7. 20	8. 25	·0997	13. 45:	·01455			
		8. 55	·1002	14. 55	·01665			
		9. 1	·1010	15. 7	·01645			
		9. 15	·1000	16. 43	·01625			
		10. 7	·1006	17. 10	·01615			
		10. 32	·1003	18. 50	·01600			
		11. 10	·1007	19. 32	·01605			
		12. 4	·1003	20. 38	·01600			
		15. 5	·1016	22. 0	·01605			
		15. 55	·1013	23. 20	·01600			
		18. 25:	·1023	23. 47	·01572			
		19. 45	·1014					
		20. 9	·1015					
		21. 39	·1009					
		22. 8	·1009					
		23. 0	·1005					
		23. 45	·1004					
June24		June24		June24		June24		
0. 7	22. 7. 0	0. 0	·1004	0. 0	·01557	1. 40	67 ·0	69 ·0
1. 21	9. 30	0. 53	·1014	1. 46:	·01332	3. 40	73 ·0	73 ·0
3. 52	4. 30	1. 19	·1008	3. 13	·00960	9. 40	72 ·1	74 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June24 h m	° ′ ″	June24 h m		June24 h m		June24 h m	°	°
7. 52	22. 0. 35	1. 40	·0996	6. 20:	·01050	23. 40	75 ·0	72 ·0
8. 57	22. 1. 15	3. 8	·1014	8. 26	·01060			
9. 12	21. 58. 0	4. 50	·1014	9. 25	·01072			
11. 13	22. 1. 30	5. 25	·1000	10. 33	·01070			
13. 12	22. 2. 35		***	11. 16	·01115			
18. 53	21. 56. 35	6. 15	·1002	12. 46	·01255			
20. 25	58. 0		***	14. 38:	·01450			
21. 32	21. 57. 25	7. 0	·1014	16. 12	·01660			
23. 59	22. 4. 15	7. 32	·1007	16. 15	·01650			
		9. 0	·1003	21. 7	·01610			
		9. 20	·1015	21. 21	·01612			
		10. 14	·1004	22. 29:	·01625			
		11. 20	·1008	23. 25	·01550			
		12. 44	·1006	23. 59	·01482			
		18. 0	·1017					
		19. 0	·1013					
		21. 25	·0998					
		23. 59	·1000					
June25		June25		June25		June25		
0. 40	22. 3. 45	0. 0	·1000	1. 0	·01365	10. 0	74 ·0	76 ·5
4. 53	1. 0	1. 15	·1002	2. 5	·01170	21. 40	71 ·0	72 ·5
13. 36	0. 50	1. 45	·0996	2. 43	·01020			
14. 5	2. 20	2. 31	·1000	2. 55	·01036			
15. 8	22. 2. 45	2. 50	·0995	3. 8	·01040			
17. 40	21. 58. 35	3. 6	·0999	4. 22	·01074			
20. 41	58. 35	3. 30	·0994	5. 38	·01065			
21. 5	21. 57. 30	3. 44	·0998	6. 50	·01060			
23. 59	22. 5. 35	4. 55	·0990	7. 45	·01050			
		7. 50	·1004	8. 9	·01060			
		10. 35	·1002	8. 28	·01055			
		12. 52	·1010	8. 42	·01050			
		14. 15	·1010	9. 14	·01060			
		17. 8:	·1025	10. 0	·01071			
		20. 7	·1008	10. 55	·01082			
		21. 53	·0996	11. 37	·01100			
		22. 52	·1004	12. 5	·01120			
		23. 59	·1009	12. 35	·01150			
				13. 23	·01192			
				14. 35	·01293			
				15. 39	·01400			
				16. 35	·01490			
				17. 26	·01590			
				18. 15	·01672			
				18. 26	·01665			
				18. 55	·01657			
				20. 22	·01682			
				21. 27	·01665			
				21. 53	·01663			
				23. 0	·01652			
				23. 59	·01640			
June26		June26		June26		June26		
0. 13	22. 6. 0	0. 0	·0995	1. 30	·01647	1. 40	70 ·5	72 ·0
1. 57	7. 20	0. 10	·0994	2. 15	·01665	3. 40	71 ·0	72 ·5
5. 52	1. 35	1. 15	·1000	3. 25	·01660	9. 40	67 ·0	68 ·5
13. 48	22. 1. 30	2. 3	·1002	4. 23	·01630	21. 40	60 ·0	61 ·0
16. 6	21. 59. 30	2. 15	·0999	6. 0	·01682			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 26		June 26		June 26				
h m	° ′ ″	h m		h m		h m	°	°
17. 20	21. 56. 0	3. 20	·1008	7. 40	·01662			
19. 9	58. 30	4. 6	·1004	8. 58	·01645			
20. 0	55. 10	4. 56	·1010	10. 7	·01644			
20. 12	57. 0	5. 45	·1003	11. 26	·01625			
20. 47	54. 50	6. 44	·1013	12. 30	·01618			
21. 28	57. 30	7. 30	·1010	13. 0	·01613			
21. 50	21. 57. 0	16. 55	·1036	14. 30	·01582			
22. 25	22. 0. 30	18. 45	·1032	16. 0	·01570			
23. 59	1. 0	21. 14	·1004	17. 23	·01560			
		23. 59	·1006	18. 13	·01550			
				18. 48	·01545			
				20. 0	·01550			
				20. 44	·01562			
				21. 29	·01572			
				22. 55	·01547			
				23. 59	·01497			
June 27		June 27		June 27		June 27		
0. 12	22. 2. 0	0. 0	·1006	0. 15	·01480	1. 40	63 ·0	64 ·0
1. 16	5. 10	0. 45	·1014	2. 5	·01290	3. 40	65 ·0	67 ·0
2. 35	22. 5. 0	1. 0	·1009	4. 13	·00890	9. 40	66 ·0	67 ·5
5. 32	21. 58. 45	1. 50	·1018		(†)	21. 40	60 ·0	62 ·0
7. 44	21. 59. 25	3. 5	·1015	12. 33	·00778			
14. 55	22. 1. 0			14. 22	·01000			
19. 38	21. 56. 30	3. 32	·1017	15. 19	·01140			
21. 37	21. 59. 30	4. 2	·1006	16. 30	·01325			
23. 5	22. 3. 45	4. 18	·1010	18. 11	·01540			
23. 50	4. 30	4. 25	·1004	18. 16	·01510			
		5. 20	·1006	19. 0	·01520			
		5. 34	·1000	20. 16	·01522			
		6. 50	·1010	21. 15	·01515			
		7. 6	·1007	22. 14	·01520			
				22. 49	·01510			
		7. 46	·1020	23. 19	·01585			
		8. 15	·1020	23. 55	·01448			
		8. 31	·1016					
		9. 50	·1014					
		10. 53	·1014					
		12. 36	·1018					
		16. 33	·1026					
		20. 20	·1024					
		22. 30	·1011					
		23. 59	·1010					
June 28		June 28		June 28		June 28		
0. 0	22. 5. 20	0. 0	·1010	0. 0	·01439	1. 40	64 ·0	65 ·0
2. 5	8. 0	1. 13	·1008	2. 5	·01227	3. 40	65 ·5	67 ·0
8. 13	0. 45	2. 50	·1016	3. 43	·01878	9. 40	67 ·0	68 ·5
10. 13	22. 0. 30	4. 6	·1012	3. 59	·00818	21. 40	60 ·0	62 ·0
10. 55	21. 58. 0	5. 0	·1017		(†)			
11. 21	59. 30	5. 39	·1013	12. 2	·00800			
11. 44	21. 58. 30	8. 50	·1023	13. 17	·01990			
12. 45	22. 1. 0			14. 15	·01235			
13. 4	21. 59. 35	11. 10	·1025	15. 9	·01275			
13. 35	22. 0. 0	11. 37	·1018	15. 29	·01320			
14. 1	21. 58. 50			16. 16	·01460			
14. 58	22. 5. 30	12. 26	·1026	16. 46	·01528			
15. 55	21. 58. 30	13. 15	·1026	16. 52	·01510			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 28		June 28				June 28		
h m	° ′ ″	h m				h m	°	°
16. 20	22. 0. 0	14. 49	·1016	17. 53	·01500			
16. 40	21. 57. 0	15. 15	·1026	19. 48	·01490			
17. 31	57. 30	16. 0	·1023	21. 45	·01493			
17. 52	55. 35	16. 26	·1030	22. 23	·01488			
18. 14	57. 35	17. 10	·1026	23. 0	·01500			
21. 7	57. 0	18. 34	·1028	23. 59	·01500			
22. 7	59. 0	22. 26	·1016					
22. 17	21. 57. 0	22. 46	·1008					
22. 53	22. 1. 0	23. 50	·1014					
23. 52	3. 0							
June 29		June 29		June 29		June 29		
0. 8	22. 5. 0	0. 34	·1014	0. 0	·00820	1. 40	63 ·5	64 ·5
2. 50	8. 30	2. 35	·1027	0. 38	·00809	3. 40	65 ·0	67 ·0
7. 47	22. 0. 25	3. 18	·1013	1. 53	·00711	9. 40	68 ·5	68 ·5
8. 22	21. 57. 16	4. 0	·1020	2. 34	·00613	21. 55	60 ·0	61 ·0
8. 47	21. 59. 25			3. 38	·00631			
11. 32	22. 0. 50	4. 25	·1014		·00729			
12. 5	21. 59. 30	6. 20	·1018	5. 40	·00649			
12. 48	22. 1. 30	7. 30	·1016	9. 30	·00605			
13. 15	0. 15	8. 31	·1022	11. 28	·00653			
13. 52	2. 0	9. 15	·1014	11. 53	·00692			
14. 23	0. 0	9. 30	·1016	15. 8	·01240			
14. 50	1. 30				·01200			
15. 13	22. 0. 0	10. 30	·1014	16. 30	·01210			
19. 14	21. 57. 0	12. 53	·1024	20. 10	·01150			
21. 35	22. 0. 0	13. 38	·1022	23. 58	·01165			
21. 46	21. 58. 0	14. 25	·1026					
23. 8	22. 3. 0	15. 5	·1022					
23. 59	5. 0	17. 15	·1027					
		18. 45	·1026					
		20. 0	·1022					
		20. 30	·1023					
		21. 45	·1026					
		23. 59	·1010					
June 30		June 30		June 30		June 30		
0. 22	22. 5. 35	0. 0	·1016	0. 22	·01060	1. 40	64 ·0	65 ·0
3. 26	5. 45	0. 27	·1008	1. 23	·00870	3. 40	66 ·0	67 ·0
6. 34	1. 0	2. 15	·1006	2. 28	·00580	9. 40	67 ·5	68 ·0
12. 44	2. 0	3. 28	·1019	3. 40	·00630	21. 40	57 ·0	60 ·3
12. 59	3. 25	4. 20	·1014		·01070			
13. 30	0. 30	4. 40	·1020	5. 38	·00670			
14. 5	22. 2. 30	5. 38	·1021	6. 28	·00650			
18. 15	21. 56. 50	6. 2	·1017	9. 13	·00660			
21. 23	21. 58. 15	6. 45	·1027	11. 23	·00630			
22. 52	22. 3. 30	10. 45	·1022	12. 47	·00650			
23. 59	7. 30	13. 36	·1027	13. 53	·00750			
		15. 35	·1025	15. 56	·00880			
		18. 6	·1027	19. 12	·01320			
		21. 54	·1014		·01280			
		23. 25	·1010	21. 43	·01280			
		23. 59	·1010	22. 30	·01270			
July 1		July 1		July 1		July 1		
0. 12	22. 8. 0	0. 0	·1010	0. 22	·01260	1. 40	62 ·0	63 ·0
1. 38	10. 0	0. 25	·1009	1. 32	·01270	3. 40	65 ·0	64 ·5
5. 12	4. 0	3. 35	·1028	3. 7	·01290	9. 40	63 ·0	64 ·2
6. 43	2. 15	3. 55	·1024		·01330	23. 25	62 ·5	64 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 27. Vertical Force Magnet. The spot of light was off the sheet from $4^h.\ 13^m.$ to $12^h.\ 35^m.$

June 28. Vertical Force Magnet. The spot of light was off the sheet from $4^h.$ to $12^h.$

June 29. The adjustments of the Vertical Force Magnetometer were altered so as to lessen the sensibility of the magnet.

Greenwich Mean Solar Time.	Western Declination.	Horizontal Force. Increase of the Westerly Force for 0·0001 of the British Unit.	Vertical Force. Increase of the Vertical Force for 0·0001 of the British Unit.	Readings of Thermometers. Of H.F. Magnet	Of V.F. Magnet
July 1		July 1	July 1		
h m		h m			
12. 8	22. 1. 50	7. 8	·1026		
16. 43	21. 57. 25	8. 26	·1026	6. 30	
17. 44	55. 0	9. 56	·1032	7. 13	
20. 40	21. 54. 40	13. 55	·1004	8. 3	
22. 11	22. 1. 30	15. 48	·1004		
22. 28	0. 30	17. 45	·1035	11. 15	
22. 52	3. 30	18. 55	·1033	11. 23	·01080
23. 59	5. 20	19. 45	·1016	14. 37	·01100
		20. 43	·1000	16. 43	·01270
		23. 0	·1000	20. 43	·01290
		23. 59	·1001	21. 18	·01170
July 2		July 2		July 2	
0. 10	22. 5. 35	0. 0	·1000	0. 38	·01100
3. 12	8. 35	0. 30	·1000	2. 48	·01100
5. 24	5. 30	2. 2	·1006	3. 53	·01100
7. 8	22. 0. 0	2. 45	·1000		
8. 23	21. 57. 0	3. 22	·1000	6. 22	·00630
9. 40	22. 1. 20	4. 2	·1000	11. 0	·01150
11. 4	22. 1. 40	4. 12	·1000	13. 29	·00690
11. 26	21. 58. 15	4. 55	·1000	14. 53	·00690
12. 31	59. 45	5. 18	·1000	16. 25	·00890
13. 13	54. 30	5. 33	·1000	19. 0	·01180
14. 12	56. 0	6. 28	·1000	21. 24	·01100
14. 40	55. 40	7. 0	·1000		
14. 55	54. 0	7. 20	·1026	23. 35	·01100
15. 12	55. 35	7. 40	·1028	23. 57	·01100
15. 23	54. 40	8. 35:	·1018		
17. 21	56. 30	9. 11	·1000		
17. 36	55. 25				
18. 7	58. 50	12. 0	·1022		
18. 25	57. 50	12. 15	·1017		
18. 59	58. 30	12. 53	·1000		
19. 3	57. 10	13. 20	·1000		
		13. 42	·1022		
20. 7	55. 30	16. 13	·1000		
20. 44	21. 58. 0	17. 34	·1000		
21. 16	22. 0. 0	18. 0	·1000		
23. 53		18. 50	·1000		
		21. 22	·1000		
		22. 0	·0990		
		23. 15	·1000		
July 3		July 3		July 3	July 3
0. 8	22. 5. 10	0. 15	·1000	0. 14	·01010	1. 40	65 ·0	66 ·0
1. 10	7. 25	0. 52	·0996	1. 50	·01270	3. 40	71 ·5	71 ·3
1. 43	6. 30	1. 46	·1000	5. 25	·00680	9. 40	70 ·5	72 ·3
3. 29	8. 50	3. 30	·1022		·00710	21. 40	62 ·0	63 ·5
4. 24	5. 20	4. 21	·1004	5. 42	·00690			
5. 6	7. 25	5. 21	·1027	5. 55	·00710			
5. 39	4. 25	5. 46	·1000	9. 36	·00690			
6. 48	3. 40	6. 16	·1022	10. 27	·00650			
7. 0	2. 0	6. 55:	·1000	11. 56	·00660			
7. 39	1. 0	7. 30	·1018	12. 30	·00690			
8. 0	2. 20	7. 45	·1018	13. 50	·00770			
8. 20	22. 0. 50	8. 2	·1028	14. 34	·00850			
8. 49	21. 57. 0	8. 25	·1014	16. 0	·01010			

Greenwich Mean Solar Time.	Western Declination.	Horizontal Force. Increase of the Westerly Force for 0·0001 of the British Unit.	Vertical Force. Increase of the Vertical Force for 0·0001 of the British Unit.	Readings of Thermometers. Of H.F. Magnet	Of V.F. Magnet
July 3		July 3			
9. 25	21. 58. 0	8. 0	·1022		
10. 1	22. 1. 0	8. 30	·1000	18. 53	·01360
12. 12	0. 40	12. 25	·1014	19. 23	·01380
12. 31	3. 30	12. 36	·1020	20. 19	·01370
12. 58	22. 0. 10	13. 30	·1013	22. 35	·01390
14. 16	21. 59. 0	14. 16	·1010	23. 24	·01390
14. 40	22. 2. 0	14. 59	·1022		
15. 28	21. 57. 30	15. 30	·1012		
16. 6	22. 1. 45	17. 45	·1018		
16. 26	22. 0. 35	18. 35	·1000		
16. 42	21. 58. 0	21. 7	·1008		
17. 30	56. 40	22. 23	·0995		
18. 0	53. 50	22. 50	·0996		
21. 22	21. 57. 30	23. 44	·1000		
23. 40	22. 1. 0	23. 55	·0988		
23. 59	7. 0				
July 4		July 4		July 4	
0. 17	22. 6. 30	0. 0	·0988	0. 45	·01300
2. 52	6. 30	4. 30	·1012	1. 7	·01150
5. 47	3. 0	5. 28	·1000	1. 57	·01200
8. 21	5. 30	6. 10	·1018	2. 14	·01170
8. 47	0. 50	6. 37	·1013	2. 50	·01100
9. 23	2. 10			3. 23	·01010
9. 52	0. 0	10. 15	·1015	4. 29	·00830
11. 3	1. 0	10. 45	·1010	5. 33	·00690
12. 0	0. 30	18. 0	·1018	6. 7	·00640
13. 14	2. 30	21. 6	·1000	7. 28	·00630
13. 31	0. 45	22. 34	·1004	10. 40	·00660
13. 31	2. 45	23. 34	·0998	11. 24	·00690
14. 0	22. 0. 30			11. 40	·00730
16. 8	21. 58. 50			14. 24:	·01100
17. 33	57. 0			16. 54	·01170
21. 22	59. 0			18. 7	·01340
21. 34	21. 58. 0			20. 55	·01310
23. 0	22. 2. 10			23. 35	·01270
July 5		July 5		July 5		July 5	
0. 7	22. 1. 0	0. 0	·0998	0. 49	·01270	1. 40	63 ·0	64 ·0
2. 20	5. 25	1. 16	·0995	2. 15:	·01130	3. 40	64 ·0	66 ·0
3. 6	0. 40	3. 36	·1000	4. 10	·00890	9. 40	66 ·0	68 ·0
9. 55	0. 30			5. 11	·00750	21. 40	59 ·0	61 ·0
10. 5	2. 10	6. 17	·1002	6. 19	·00560			
10. 52	0. 30	6. 35	·1017		·00580			
12. 32	1. 30	6. 39	·1015	7. 30	·00580			
14. 32	0. 20	7. 0	·1020	9. 37	·00590			
14. 55	22. 1. 30	10. 15	·1018	10. 41	·00550			
16. 22	21. 58. 0	11. 35	·1014	11. 36	·00590			
16. 37	22. 0. 0	17. 15	·1021	12. 15	·00620			
18. 15	21. 57. 35	20. 0	·1020	13. 52	·00790			
20. 21	21. 58. 30	23. 0	·1000	15. 42	·01050			
23. 59	22. 2. 45	23. 59	·1007	17. 35	·01350			
					·01300			
				18. 55	·01290			
				21. 39	·01300			
				22. 35	·01280			
				23. 26	·01250			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are interpolated from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Greenwich Mean Time of Observation	Western Declination.	Greenwich Mean Time.	Horizontal Force (the whole Force being represented by 1.0000)	Mean Time.	Vertical Force (the whole Force being represented by 1.0000)	Greenwich Mean Time.	Readings of Thermometers.	
							Dry Bulb.	Wet Bulb.
	° ′ ″	h m		July 5 h m		h m	°	°
				2. 59	·01210			
July 6		July 6		July 6		July 6		
	22. 3. 25	0. 0	·1026	0. 44	·00115	1. 40	63·0	65·0
1. 56	6. 50	4. 0	·1018	1. 45	·01050	3. 40	68·0	
3. 3	5. 0	5. 30	·1010	2. 46	·00960	9. 40	67·5	
5. 10	1. 40	10. 20	·1021	3. 50	·00770	21. 40	59·0	
15. 5	22. 0. 0	12. 30	·1018	5. 19	·00610			
17. 28	21. 57. 30	18. 15	·1030	5. 53	·00530			
18. 30	54. 30	20. 50	·1022					
10. 58	54. 0	22. 44	·1021	7. 20	·00540			
22. 13	56. 30	23. 36	·1012	9. 10	·00560			
20. 29	56. 45	23. 59	·1013	10. 15	·00550			
22. 35	21. 54. 15			11. 33	·00590			
23. 51	22. 3. 0			11. 44	·00610			
				13. 5	·00770			
				14. 0	·00830			
				16. 10	·00320			
					·01280			
				17. 54	·01300			
				19. 30	·01270			
					·01410			
				20. 51	·01200			
				21. 49	·01180			
				22. 50	·01240			
				23. 25	·01220			
July 7		July 7		July 7		July 7		
0. 40	22. 3. 30	0. 0	·1013	0. 50	·01120	1. 40	62·5	
1. 46	6. 40	0. 45	·1024	1. 44	·01	3. 40	62·0	63·5
2. 14	7. 0	1. 44	·1029	3. 10		9. 40	66·0	67·5
2. 47	8. 10	2. 18	·1031	5. 20		21. 40	62·0	
6. 28	0. 25	2. 49	·1028					
9. 10	0. 0			6. 14	·00580			
9. 19	22. 0. 30	3. 40	·1021	9. 23	·00570			
9. 37	21. 58. 0	6. 4	·1029	10. 57	·00540			
10. 28	22. 0. 35	7. 0	·1024	11. 30	·00550			
13. 55	22. 0. 0	7. 45	·1033	12. 45	·00690			
14. 35	21. 59. 0	8. 16	·1028	14. 5	·00680			
14. 57	22. 0. 0	9. 30	·1032	16. 36	·00930			
15. 37	21. 58. 40	12. 0	·1026	18. 54	·01150			
16. 20	59. 0	14. 40	·1032	21. 21	·01320			
17. 7	56. 0	18. 0	·1043		·01280			
18. 4	54. 0	18. 55	·1033	22. 48	·01290			
18. 50	54. 30	19. 30	·1042	23. 10	·01310			
19. 8	52. 0	21. 25	·1018	23. 57	·01320			
19. 21	55. 0	22. 44	·1025					
19. 47	52. 50	23. 0	·1010					
20. 7	54. 30	23. 15	·1022					
20. 42	21. 53. 15	23. 57	·1026					
	***							
21. 56	22. 0. 0							
22. 46	21. 59. 30							
23. 17	21. 56. 30							
23. 45	22. 7. 45							
July 8		July 8		July 8		July 8		
0. 3	22. 9. 30	0. 0	·1024	0. 0	·01340	1. 40	63·0	64·5

Greenwich Mean Time of Observation	Western Declination.	Horizontal Force (the whole Force being represented by 1.0000)	Vertical Force (the whole Force being represented by 1.0000)	Three in whole exposed Temperature.	Mean Time.	Readings of Thermometers.	
						Dry Bulb.	Wet Bulb.
	° ′ ″				h m	°	°
July 8		July 8		July 9	July 8		
h m	° ′ ″				h m		
0. 14	22 19. 0	0. 23	·1022	0. 41	3. 40	65·0	66·5
1. 16	8. 50	0. 44	·1020	1. 21	9. 40	69·0	70·5
1. 51	11. 0	1. 8	·1020	1. 37	20. 40	64·8	66·5
2. 48	8. 20	1. 49	·1020	2. 42			
3. 32	9. 25	2. 29	·1021	3. 17			
4. 3	7. 40	2. 55	·1028	4. 12			
4. 42	8. 30	3. 8	·1025				
5. 37	5. 30	3. 30	·1034	4. 40			
6. 16	6. 0	4. 7	·1023	5. 25			
6. 27	4. 30	4. 45	·1026	6. 10			
7. 28	22. 5. 0	5. 17	·0998	6. 36			
7. 55	21. 53. 0			7. 34			
8. 22	50. 30	5. 55	·1018	7. 57			
8. 40	56. 0	6. 14	·1034	8. 15			
8. 55	54. 0	6. 30	·1018	8. 55			
9. 17	52. 30	6. 52	·1035	9. 23			
9. 26	54. 30	7. 1	·1033				
9. 43	58. 30			10. 31			
9. 52	21. 56. 30	7. 21	·1018	11. 56			
10. 6	22. 0. 0	7. 40	·1006	12. 10			
11. 11	1. 0	8. 0	·1028	12. 47			
12. 27	22. 0. 0	8. 22	·1021	13. 8			
12. 38	21. 57. 10	8. 31	·1024	13. 32			
12. 44	55. 30	8. 45	·1016	13. 55			
12. 57	55. 30	9. 21	·1014	14. 38			
13. 14	56. 30	9. 38	·1021	16. 20			
13. 58	44. 20	11. 30	·1023	16. 51			
14. 53	55. 30	11. 38	·1018	17. 31			
15. 25	21. 55. 30	11. 48	·1022	18. 50			
16. 25	22. 1. 30	12. 16	·1020	19. 43			
16. 52	21. 58. 25	12. 34	·1043	19. 48			
17. 11	22. 2. 10	12. 53	·1044	19. 51			
17. 26	21. 59. 20	13. 34	·1000	21. 3			
18. 34	54. 40	14. 30	·1014	21. 35			
				22. 8			
21. 26	54. 30	14. 50	·1018	23. 10			
21. 43	58. 35	16. 34	·1014	23. 56			
21. 56	56. 45	16. 46	·1016				
22. 7	21. 59. 30	16. 50	·1022				
23. 15	22. 1. 0	19. 25	·1020				
23. 50	4. 0	21. 44	·1013				
		23. 34	·1013				
		23. 51	·1010				
July 9		July 9		July 9	July 9		
0. 7	22. 6. 0	0. 0	·1021	0. 10	9. 50	65·5	67·5
0. 25	3. 30	0. 32	·1018	1. 46	21. 40	64·5	65·0
1. 5	4. 45			2. 44			
2. 0	3. 10	1. 37	·1020	3. 10			
3. 30	5. 10	2. 35	·1007	5. 46			
4. 25	3. 50	2. 55	·1022	6. 24			
4. 40	5. 0	3. 7	·1015	8. 40			
5. 24	2. 50	3. 20	·1019	9. 47			
5. 38	3. 45	3. 30	·1014	10. 42			
5. 47	2. 20	4. 8	·1022	11. 35			
6. 4	22. 2. 40	4. 20	·1012	12. 15			
6. 28	21. 57. 0	4. 36	·1022	13. 20			
7. 56	22. 0. 50	4. 55	·1008	14. 23			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 9		July 9		July 9				
h. m.	° ′	h. m.		h. m.		h. m.		
8. 38	21. 59. 30	5. 10	·1022	18. 17	·01090			
8. 47	56. 30	5. 25	·1014	18. 55	{·0142 / ·01400			
9. 0	21. 59. 35	5. 37	·1024					
9. 13	22. 3. 30	6. 7	·1003	20. 6	·01380			
		6. 36	·1028	21. 38	·01370			
9. 45	21. 59. 0	6. 46	·1024	22. 20	·01370			
10. 41	59. 40			23. 42	·01270			
12. 24	57. 10	8. 34	·1024					
13. 10	58. 40	8. 53	·1028					
14. 44	55. 25							
15. 47	57. 35	9. 38	·1021					
17. 22	56. 30	9. 52	·1026					
18. 7	54. 30	10. 15	·1020					
20. 1	55. 0	11. 0	·1018					
21. 35	21. 58. 0	12. 15	·1024					
23. 31	22. 7. 30	13. 2	·1021					
23. 59	7. 40	13. 45	·1021					
		14. 55	·1024					
			***					
		15. 45	·1024					
		18. 55	·1021					
		20. 40	·1014					
		22. 20	·0994					
		22. 50	·0998					
		23. 2	·0998					
		23. 30	·0994					
		23. 40	·1000					
		23. 59	·1010					
July 10		July 10		July 10		July 10		
0. 10	22. 8. 0	0. 0	·1010	0. 45	·01230	1. 40	65·2	67·0
0. 45	8. 0	0. 27	·1006			3. 40	65·0	67·0
0. 55	6. 0	0. 40	·1012	2. 10	·01170	9. 40	65·0	67·0
1. 50	8. 0	1. 15	·1014	2. 35	·01100	21. 20	65·0	67·0
2. 8	10. 10	1. 30	·1025					
2. 37	9. 0			4. 55	·01090			
3. 18	9. 30	2. 2	·1027	5. 5	·01110			
		2. 44	·1016					
3. 50	22. 4. 30	3. 7	·1030	7. 55	·00820			
4. 13	21. 53. 25	3. 23	·1021	9. 14	·00740			
4. 19	21. 53. 0	3. 35	·1028	10. 12	·00700			
4. 38	22. 2. 20	3. 55	·1016	10. 52	·00690			
4. 58	21. 57. 35	4. 28	·1082	11. 11	·00560			
5. 20	57. 50	4. 51	·1034	11. 24	·00550			
5. 47	55. 30	5. 8	·1052	11. 35	·00600			
		5. 48	·1037					
7. 4	56. 0	6. 0	·1032	11. 56	·00630			
7. 33	53. 10	6. 7	·1034	12. 37	·00670			
7. 48	52. 45	6. 25	·1048	13. 2	·00610			
8. 16	53. 0	6. 44	·1034	13. 5	·05620			
8. 48	58. 25	7. 5	·1066	13. 27	·00720			
9. 30	53. 20	7. 15	·1054					
9. 58	56. 35	7. 23	·1058	15. 44	·00940			
10. 11	51. 35	7. 31	·1048	16. 5	·00950			
10. 33	21. 55. 30	7. 44	·1042	17. 23	{·0123 / ·01220			
10. 56	22. 16. 15	8. 0	·1015					
11. 25	21. 58. 35	8. 15	·1014	18. 15	·01290			
11. 30	59. 40	8. 35	·1022	18. 49	·01320			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 10		July 10		July 10				
h. m.	° ′	h. m.		h. m.		h. m.		
11. 43	21. 55. 0	9. 17	·0984	21. 41	·01380			
11. 59	58. 45	9. 58	·1000	22. 50	·01350			
12. 22	21. 47. 5	10. 14	·0986					
12. 43	22. 9. 30	10. 45	·0992					
13. 7	21. 56. 0	10. 57	·1002					
13. 20	22. 4. 30	11. 21	·0968					
13. 37	21. 55. 20	11. 41	·0965					
14. 0	49. 30	11. 50	·0990					
14. 23	49. 0	12. 1	·1002					
14. 43	55. 30	12. 5	·0987					
15. 7	21. 55. 40	12. 25	·1000					
15. 30	22. 10. 15	12. 34	·1020					
16. 0	21. 54. 30	13. 5	·0982					
16. 28	22. 0. 0	13. 43	·1014					
16. 43	21. 57. 30	13. 51	·1009					
17. 26	22. 7. 0	14. 15	·1025					
17. 57	5. 25	14. 30	·1022					
17. 45	6. 15	14. 45	·1006					
17. 57	0. 30	15. 0	·1012					
18. 40	22. 1. 0	15. 17	·1008					
18. 56	21. 48. 30	15. 30	·1002					
19. 8	53. 40	16. 30	·1016					
19. 18	52. 0	16. 43	·1010					
19. 34	56. 0	17. 8	·1025					
19. 50	21. 56. 0	17. 45	·1017					
20. 56	22. 1. 20		***					
21. 45	0. 30	19. 2	·1018					
23. 5	4. 35	20. 10	·0993					
23. 47	5. 30	22. 40	·0999					
		23. 50	·1001					
July 11		July 11		July 11		July 11		
0. 10	22. 6. 0	0. 0	·1002	0. 8	·01350	1. 40	63·0	64·0
1. 0	8. 10	1. 0	·1002	0. 58	·01310	3. 40	65·0	67·0
1. 45	8. 0			2. 9	·01190	9. 40	66·0	68·0
2. 25	6. 0	1. 51	·1002	2. 48	·01100	21. 20	65·0	67·0
3. 55	5. 35	2. 37	·1014	4. 38	·00710			
7. 1	0. 0	3. 30	·1010	5. 24	{·0068 / ·00690			
10. 8	0. 0	5. 0	·1017					
11. 1	22. 1. 30	6. 5	·1014	6. 50	·00570			
11. 20	21. 59. 30	6. 45	·1022	8. 5	·00570			
12. 7	22. 0. 10	7. 5	·1014	9. 40	·00590			
13. 30	21. 58. 0	9. 13	·1014	10. 58	·00570			
14. 34	22. 0. 0	11. 10	·1021	11. 50	·00580			
15. 2	21. 58. 30	11. 27	·1018	12. 20	·00580			
16. 4	22. 0. 0	13. 0	·1022	15. 20	·00790			
19. 55	21. 54. 50	15. 6	·1016	16. 50	·00940			
22. 31	21. 58. 45	15. 17	·1020	19. 20	·01240			
23. 59	22. 3. 0	15. 29	·1016	20. 27	{·0135 / ·01350			
		17. 8	·1020					
		19. 53	·1022	21. 13	·01360			
		22. 52	·1006	22. 38	·01340			
		23. 53	·1003	23. 50	·01350			
		23. 59	·1004					
July 12		July 12		July 12		July 12		
0. 13	22. 3. 30	0. 0	·1005	0. 15	·01360	1. 40	61·0	62·0
1. 28	6. 30	1. 28	·1019	1. 51	·01340	3. 40	63·0	64·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Greenwich Mean Solar Time	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
July 12		July 12		July 12		July 12		
h m	° ′	h m		h m		h m	°	°
2. 54	22. 7. 20	1. 40	·1015	2. 45	·01290	9. 40	63·5	64·5
7. 5	2. 35	3. 4	·1034	4. 14	·01210	21. 40	58·0	59·5
8. 53	2. 0	4. 13	·1026	5. 6	·01160			
9. 10	0. 0		***	6. 5	·01100			
9. 20	22. 0. 15	7. 15	·1038	7. 35	·01060			
9. 38	21. 56. 45	9. 37	·1032	9. 5	·01050			
10. 25	58. 30	10. 5	·1042	10. 38	·01020			
11. 2	21. 58. 25	15. 10	·1030	11. 53	·01030			
11. 53	22. 0. 30	16. 0	·1036	12. 30	·01050			
13. 10	22. 1. 0	19. 15	·1038	13. 55	·01100			
14. 25	21. 59. 0	20. 16	·1026	16. 23	·01260			
15. 50	22. 2. 30	20. 39	·1026	17. 27	·01370			
16. 55	21. 57. 30	21. 13	·1016		·01340			
	***	22. 0	·1018	18. 28	·01340			
19. 45	52. 30	23. 0	·1008	18. 35	·01300			
21. 20	58. 30	23. 15	·1007	19. 50	·01300			
21. 48	21. 58. 0	23. 59	·1008	21. 41	·01310			
23. 59	22. 3. 20			22. 33	·01320			
				23. 5	·01290			
				23. 59	·01250			
July 13		July 13		July 13		July 13		
0. 26	22. 4. 0	0. 0	·1008	0. 30	·01200	1. 40	63·3	64·5
1. 44	6. 0	1. 0	·1006	2. 47	·00990	3. 40	64·5	66·5
4. 2	5. 50	3. 53	·1023	4. 45	·00590	9. 40	68·0	69·5
5. 20	3. 0	4. 35	·1018		·00610	21. 40	61·0	62·0
7. 47	0. 30	5. 7	·1022	6. 5	·00640			
10. 48	0. 0	5. 23	·1017	9. 29	·00660			
11. 7	22. 2. 20	5. 32	·1022	11. 36	·00590			
11. 40	21. 58. 0	5. 46	·1017	12. 40	·00570			
12. 18	59. 25	6. 23	·1021	14. 50	·00670			
13. 5	57. 30	7. 25	·1015	16. 31	·00820			
13. 51	59. 20	10. 59	·1020	17. 16	·00930			
14. 32	21. 58. 0	12. 15	·1030	21. 22	·01410			
15. 7	22. 0. 0	13. 30	·1020		·01370			
	***	15. 0	·1018	22. 50	·01410			
16. 52	21. 58. 0	16. 30	·1021	23. 59	·01380			
17. 16	59. 40	18. 16	·1017					
18. 24	58. 0	19. 0	·1023					
20. 1	21. 55. 20	20. 39	·1020					
22. 47	22. 5. 0	22. 23	·0992					
23. 5	7. 20	23. 25	·1000					
23. 59	6. 0	23. 59	·1004					
July 14		July 14		July 14		July 14		
0. 7	22. 6. 0	0. 0	·1005	0. 55	·01310	1. 40	65·0	66·0
0. 42	5. 0	0. 23	·1013		***	3. 40	66·0	67·5
4. 10	6. 30	1. 8	·1014	1. 46	·01250	9. 40	66·0	67·5
7. 55	22. 2. 0		***	2. 36	·01190	21. 40	62·0	64·5
13. 54	21. 59. 40	2. 16	·1022	3. 10	·01140			
14. 38	22. 0. 45	2. 58	·1030	4. 25	·01060			
15. 2	3. 30	5. 36	·1023	6. 20	·00890			
15. 42	22. 0. 30	5. 46	·1016	7. 50	·00790			
18. 0	21. 56. 35	6. 14	·1023	8. 58	·00770			
20. 47	21. 57. 0	9. 35	·1021	10. 5	·00750			
23. 59	22. 4. 0	10. 40	·1027	11. 10	·00730			
		12. 15	·1023	12. 21	·00760			
		13. 27	·1028	13. 21	·00810			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
h m	° ′	July 14 h m		July 14 h m		h m	°	°
		13. 52	·1023	15. 5	·00890			
		15. 8	·1028	17. 35	·01			
		17. 15	·1028	19. 35	·0117			
		18. 45	·1032	21. 5	·012			
		22. 30	·1004	23. 25	·01220			
		23. 59	·1010	23. 59	·01200			
July 15		July 15		July 15		July 15		
0. 30	22. 5. 30	0. 0	·1010	0. 30	·01170	1. 40	65·0	65·8
2. 35	7. 30	2. 45	·1023	1. 35	·01140	3. 40	66·0	67·5
5. 28	2. 30	3. 17	·1020	2. 37	·00990	9. 40	68·0	69·0
5. 40	0. 45	3. 35	·1023	3. 8	·00930	23. 8	64·0	65·5
6. 48	22. 2. 0	4. 0	·1022		·00610			
7. 17	21. 56. 15		***	4. 20	·00650			
7. 58	22. 0. 30	4. 30	·1030	5. 12	·00650			
8. 7	21. 57. 0	5. 13	·1020	6. 44	·00660			
8. 35	22. 3. 25	5. 33	·1027		(†)			
10. 28	0. 50	5. 44	·1018	9. 40	·00615			
11. 2	3. 30	6. 20	·1035	23. 8	·01394*			
11. 25	2. 0	7. 5	·1014					
14. 26	0. 0	7. 45	·1028					
15. 24	4. 20	8. 2	·1027					
16. 9	22. 0. 0	8. 15	·1041					
17. 16	21. 58. 35	8. 46	·1020					
20. 17	21. 57. 0	9. 13	·1025					
23. 22	22. 1. 30	10. 8	·1023					
		10. 34	·1030					
		10. 45	·1025					
		11. 1	·1030					
		14. 0	·1023					
		15. 47	·1032					
		16. 30	·1027					
		17. 13	·1030					
		18. 23	·1024					
		20. 22	·1026					
		23. 13	·1004					
		23. 36	·1012					
		23. 59	·1004					
July 16		July 16		July 16		July 16		
0. 3	22. 2. 30	0. 0	·1004	0. 0	·01290	8. 18	70·0	72·0
0. 40	3. 35	0. 28	·1012	1. 17	·01050	21. 40	63·0	64·5
1. 13	3. 0	0. 46	·1013	3. 0	·00710			
2. 48	22. 4. 30	1. 0	·1007	3. 9	·00720			
	(†)	1. 45	·1019	4. 20	·00730			
8. 45	21. 57. 0	2. 38	·1007	7. 37	·00720			
9. 39	58. 30	3. 0	·1011	8. 55	·00670			
11. 1	54. 0	3. 30	·1001	9. 47	·00700			
11. 38	55. 25		***	11. 18	·00750			
11. 57	58. 25	5. 15	·1016	12. 15	·00830			
12. 45	57. 45	5. 34	·1004	13. 5	·00890			
13. 2	21. 56. 0	6. 10	·1010	14. 20	·01020			
13. 34	22. 6. 30	6. 38	·1008	15. 50	·01230			
14. 30	21. 57. 0	7. 14	·1015	17. 21	·01470			
15. 10	59. 30	7. 30	·1010		·01440			
15. 55	56. 20	7. 42	·1014	18. 43	·01450			
21. 20	55. 25	7. 58	·1006	20. 13	·01420			
22. 51	21. 57. 30	8. 8	·1012	21. 38	·01440			

For the Horizontal and Vertical Forces, increasing readings denote increasing Forces.

July 15. At 6ʰ. 44ᵐ the Vertical Force time-piece stopped.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 16		July 16		July 16				
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 1. 30	8. 57	·1000	22. 33	·01430			
		9. 23	·1011	23. 24	·01420			
		9. 45	·1005					
		10. 45	·1006					
		11. 18	·1012					
		11. 30	·1011					
		12. 0	·1020					
		12. 30	·1013					
		12. 46	·1013					
		13. 8	·1007					
		13. 59	·1011					
		14. 35	·1007					
		15. 15	·1016					
		17. 8	·1014					
		19. 59	·1018					
		21. 45	·1012					
		22. 30	·1010					
		23. 53	·0996					
		23. 59	·0997					
July 17		July 17		July 17		July 17		
0. 7	22. 2. 0	0. 0	·0998	1. 5	·01350	1. 40	67 ·0	68 ·8
1. 20	6. 15	1. 23	·1000	2. 47	·01110	3. 40	69 ·0	70 ·0
2. 44	6. 0	2. 15	·0995	4. 15	·00860	9. 40	70 ·0	72 ·5
6. 3	0. 30	3. 23	·1002	5. 35	{·00660	21. 40	65 ·0	67 ·0
9. 6	22. 0. 50	4. 24	·1000		·00710			
15. 40	21. 59. 45	6. 55	·1010	7. 43	·00670			
17. 8	22. 1. 15	8. 30	·1014	9. 36	·00680			
17. 48	21. 59. 30	9. 15	·1003	10. 40	·00660			
20. 0	58. 0	17. 30	·1021	11. 45	·00710			
21. 36:	55. 35	19. 22	·1016	13. 0	·00790			
22. 58:	55. 40	19. 45	·1012	14. 55	·00960			
23. 59	59. 0	20. 20	·1014	17. 31	·01230			
		23. 59	·0987	19. 55	{·01460			
					·01410			
				20. 54	·01430			
				22. 29	·01430			
				23. 59	·01360			
July 18		July 18		July 18		July 18		
0. 24	22. 0. 0	0. 0	·0987	0. 35	·01210	1. 40	69 ·0	70 ·8
1. 37	3. 15	0. 59	·0990	1. 50	·00950	3. 40	72 ·0	72 ·7
4. 16	22. 2. 30	1. 45	·0985	2. 42	·00730	9. 40	71 ·0	72 ·0
5. 47	21. 59. 45	3. 0	·0994	3. 6	{·00670	21. 40	65 ·5	67 ·0
7. 38	21. 59. 0	3. 30	·0988		·00730			
11. 28	22. 0. 30	5. 22	·0998	3. 50	{·00750			
12. 7	21. 58. 30	5. 44	·0990		·00820			
13. 53	22. 0. 15	7. 2	·0996	4. 10	·00740			
15. 18	21. 56. 25	7. 50	·0994	5. 9	·00750			
16. 14	57. 30	12. 0	·1018	7. 55	·00710			
20. 13	21. 55. 25	12. 14	·1014	9. 39	·00790			
22. 15	22. 0. 0	14. 33	·1026	10. 30	·00850			
23. 37	0. 10	15. 46	·1026	11. 51	·01070			
23. 59	1. 15	17. 0	·1034	12. 45	·01130			
			***	13. 57	{·01470			
		19. 0	·1030		·01430			
		19. 45	·1016	14. 23	·01430			
		21. 45	·1015	17. 32	·01410			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		July 18		July 18				
° ′ ″	° ′ ″	h m		h m		h m	°	°
		23. 10	·0992	19. 48	·01380			
		23. 55	·0994	21. 40	·01390			
				22. 54	·01320			
				23. 35	·01250			
		July 19		July 19		July 19		
		0. 0	·0993	0. 0	·01170	1. 40	68 ·0	69 ·5
		0. 40	·0988	0. 55	·01060	3. 40	70 ·0	72 ·0
		1. 15	·0994	2. 50	·00970	9. 40	71 ·0	72 ·5
		1. 37	·0989		{·00690	21. 40	63 ·0	65 ·0
		2. 47	·1002	3. 20	·00730			
		3. 14	·1001		{·00820			
		3. 45	·1008	4. 14	·00710			
		4. 0	·1006	5. 10	·00680			
		4. 23	·1012	9. 30	·00670			
		4. 40	·1008	11. 26	·00710			
			***	12. 16	·00780			
		6. 15	·1008	13. 18	·00900			
			***	14. 43	·01080			
		8. 5	·1019	15. 32	·01201			
		8. 50	·1010	16. 50	{·01450			
		12. 16	·1014		{·01360			
		18. 45	·1023	18. 32	·01410			
		20. 16	·1008	20. 50	·01390			
		22. 5	·1001	21. 54	·01410			
		23. 0	·1004	23. 26	·01320			
		23. 20	·1008					
		23. 59	·1006					
		July 20		July 20		July 20		
		0. 0	·1006	0. 0	·01250	1. 40	68 ·5	70 ·0
		3. 15	·1010	1. 36	·01080	3. 40	71 ·0	72 ·2
				3. 23	{·00790	9. 40	73 ·5	75 ·0
		4. 22	·1004		·00750	21. 40	63 ·0	65 ·0
		5. 50	·1007	4. 35	·00760			
		6. 23	·1017	6. 46	·00780			
		6. 45	·1015	9. 22	·00740			
		7. 6	·1014	10. 14	·00730			
		7. 34	·1014	11. 37	·00750			
		9. 15	·1020	12. 15	·00790			
		11. 0	·1015	13. 27	·00860			
		11. 10	·1021	15. 9	·01080			
		12. 10	·1017	16. 26	·01300			
		12. 30	·1021	17. 16	{·01490			
			***		·01440			
		13. 38	·1008	19. 54	·01410			
		18. 50	·1028	22. 56	·01430			
		22. 35	·1018	23. 45	·01380			
		23. 23	·1021					
		23. 37	·1004					
		23. 59	·1000					
		July 21		July 21		July 21		
		0. 0	·0999	0. 45	·01290	1. 40	70 ·0	72 ·0
		0. 15	·0996	2. 2	·01090	3. 40	71 ·5	73 ·0
		1. 15	·1007	2. 53	·00890	9. 40	74 ·0	76 ·0
		1. 48	·0990	3. 33	{·00720	21. 40	69 ·0	71 ·0
		2. 5	·1003		·00760			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 21		July 21		July 21				
h m	° ′ ″	h m		h m		h m		
11. 48	21. 58. 15	2. 30	·0998	4. 45	·00790			
13. 6	59. 30	4. 10	·0990	5. 27	·00810			
13. 46	57. 30	4. 36	·0992	5. 31	·00850			
14. 44	59. 0	4. 45	·0986	5. 46	·00820			
15. 2	21. 57. 50	5. 31	·0986					
16. 8	22. 1. 20		***	7. 46	·00770			
	***	7. 20	·1002	9. 25	·00790			
19. 20	21. 54. 30		***	10. 47	·00810			
20. 59	21. 56. 35	7. 30	·0998	11. 45	·00890			
23. 0	22. 2. 0		***	12. 31	·01000			
23. 59	3. 0	9. 20	·1004	13. 44	·01200			
		18. 45	·1030	15. 20	·01500			
		19. 23	·1020		·01460			
		20. 23	·1017	17. 6	·01440			
		21. 45	·1002	18. 2	·01430			
		23. 59	·0997	19. 16	·01430			
				21. 9	·01440			
				22. 42	·01390			
				23. 0	·01360			
				23. 39	·01270			
July 22		July 22		July 22		July 22		
0. 30	22. 4. 0	0. 0	·0998	0. 0	·01210	1. 40	74 ·0	74 ·0
2. 15	0. 30	0. 38	·1000	1. 0	·01040	3. 40	76 ·5	77 ·0
3. 55	0. 0		***	1. 48	·00780	9. 40	79 ·0	79 ·0
8. 16	22. 3. 30	6. 0	·0982	2. 5	·00810	23. 1	69 ·0	69 ·5
9. 18	21. 58. 0	6. 36	·0990	2. 37	·00830			
10. 41	57. 35	7. 10	·0987		·00870			
11. 7	59. 25	7. 15	·0994	2. 50	·00860			
11. 46	59. 30	7. 32	·0988	4. 26	·00800			
12. 25	57. 0	8. 47	·0983		·01070			
13. 0	53. 25	10. 15	·0999	5. 48	·01030			
13. 38	53. 30	10. 53	·0998	6. 16	·01020			
14. 14	57. 35	11. 29	·1010	6. 53	·01010			
15. 5	54. 30	11. 40	·1006	7. 7	·01030			
15. 20	57. 0	12. 44	·1010	9. 8	·01050			
15. 48	57. 30		***	10. 30	·01080			
16. 6	54. 30	13. 44	·1003	11. 44	·01140			
18. 16	54. 20		***	12. 53	·01360			
20. 25	56. 30	14. 37	·1018	13. 38	·01500			
22. 6	21. 56. 40	14. 58	·1013	14. 30	·01700			
23. 51	22. 2. 30	15. 15	·1019		·01670			
			***	16. 7	·01680			
		16. 7	·1016	19. 20	·01660			
		18. 0	·1027	22. 40	·01680			
		20. 15	·1017	23. 20	·01660			
		23. 5	·0987					
July 23		July 23		July 23		July 23		
0. 7	22. 3. 0	11. 26	·0995*	0. 13	·01580	11. 26	77 ·5	78 ·2
1. 53	22. 4. 0	21. 40	·1007*	0. 45	·01510	21. 40	69 ·5	71 ·0
7. 13	21. 56. 30			1. 42	·01300			
10. 22	57. 30			2. 55	·00950			
10. 30	56. 35				·01010			
12. 11	58. 35			4. 25	·01030			
13. 14	57. 30			6. 41	·01000			
16. 4	59. 0				***			
17. 5	21. 56. 0			8. 21	·01040			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 23				July 23				
h m	° ′ ″			h m		h m		
19. 1	22. 3. 30			8. 55	·01120			
19. 38	21. 58. 45			9. 51	·01200			
19. 47	59. 30			10. 36	·01230			
20. 19	57. 20			11. 25	·01280			
21. 18	21. 56. 40			13. 21	·01330			
22. 47	22. 1. 0			14. 55	·01770			
23. 17	1. 0				·01720			
23. 53	5. 0			18. 20	·01700			
				20. 21	·01680			
				21. 50	·01670			
				22. 55	·01610			
				23. 28	·01540			
July 24		July 24		July 24		July 24		
0. 46	22. 5. 0	0. 8	·0983	1. 5	·01330	1. 40	75 ·5	76 ·0
1. 22	6. 35	0. 50	·1000	2. 41	·00960	3. 40	78 ·5	79 ·0
1. 36	4. 30	0. 59	·0994	2. 47	·00980	9. 40	79 ·0	80 ·0
1. 47	6. 15	1. 15	·1013	3. 40	·00990	21. 40	75 ·0	76 ·0
2. 2	4. 30	2. 0	·0975	4. 29	·01000			
2. 38	10. 0	2. 29	·1000		***			
2. 57	5. 30		***	7. 59	·00990			
3. 32	4. 30	3. 17	·0998	8. 29	·00950			
4. 38	7. 30	3. 35	·1006	8. 55	·00960			
5. 12	5. 30		***	9. 39	·00980			
7. 5	22. 1. 30	4. 33	·0996	10. 40	·01050			
7. 26	21. 52. 0	4. 50	·1018	11. 43	·01170			
8. 0	22. 0. 30		(†)	12. 34	·01310			
8. 50	21. 56. 40	9. 40	·0994*	14. 30	·01730			
9. 8	58. 20	21. 40	·0990*	14. 55	·01710			
9. 30	57. 0			16. 36	·01720			
9. 58	51. 15			18. 35	·01710			
10. 12	51. 30			20. 29	·01700			
10. 33	21. 56. 0			21. 30	·01680			
11. 21	22. 0. 30			22. 35	·01580			
11. 38	21. 59. 0			23. 57	·01380			
12. 0	22. 1. 0							
12. 38	21. 54. 35							
13. 8	57. 30							
	***							
15. 44	21. 59. 20							
16. 19	22. 0. 30							
	***							
18. 43	21. 55. 30							
21. 46	22. 2. 35							
22. 3	2. 0							
23. 1	3. 0							
23. 53	5. 40							
July 25		July 25		July 25		July 25		
0. 3	22. 3. 0	1. 40	·0985*	1. 0	·01010	1. 40	78 ·5	79 ·5
0. 52	5. 0	3. 40	·0988*	1. 22	·01040	3. 40	80 ·0	82 ·0
2. 2	4. 0	9. 40	·0986*	2. 8	·01070	9. 40	83 ·0	83 ·5
2. 25	22. 4. 35	21. 40	·0988*	2. 40	·01100	21. 40	72 ·0	73 ·0
5. 20	21. 59. 15			3. 20	·01070			
8. 19	57. 35			6. 50	·00810			
8. 51	54. 30			10. 6	·01080			
9. 42	57. 40			11. 39	·01360			
11. 17	21. 57. 30			12. 45	·01480			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in terms of the Unit adopted in the Observatory.	Göttingen Mean Solar Time	Vertical Force in terms of the Unit adopted in the Observatory.	Göttingen Mean Solar Time	Inclination. Numbers to be added to 70°.	
							10 11 Magnet.	10 12 Magnet.
July 25		July 25		July 25				
h. m.	° ′	h. m.		h. m.		h. m.		
11. 37	22. 0. 0	20. 30	·01470					
12. 8	21. 37. 30	22. 30	·01480					
12. 32	22. 8. 0							
12. 58	21. 59. 15							
14. 10	57. 35							
17. 2	56. 40							
20. 32	21. 57. 15							
23. 30	22. 8. 0							
July 26		July 26		July 26		July 26		
0. 12	22. 3. 30	0. 0	·01487	0. 0	·01480	1. 40	74·5	75·5
2. 26	4. 30	1. 30	·01476	1. 40	·01470	3. 40		
4. 27	22. 1. 30	1. 50	·01481	2. 40	·01480	9. 40		
9. 18	21. 58. 30	2. 20	·01490	2. 54	·01500	21. 40		
13. 27	22. 0. 15	3. 20	·01484	5. 14	·01482			
14. 13	22. 8. 0	5. 10	·01486	7. 22	·01476			
14. 38	21. 58. 0	5. 27	·01485	9. 4	·01472			
17. 8	56. 20	6. 17	·01494	10. 12	·01488			
21. 35	21. 58. 45	6. 50	·01498	11. 22	·01486			
23. 59	22. 7. 0	7. 15	·01494	12. 30	·01492			
		7. 55	·01490	13. 10	·01488			
		8. 25	·01496	13. 55	·01500			
		9. 0	·01501	15. 14	·01496			
		9. 17	·01494	15. 44	·01474			
		9. 41	·01492	16. 34	·01476			
		9. 55	·01497	17. 14	·01480			
		10. 20	·01490	17. 42	·01486			
		14. 34	·01021	18. 22	·01476			
		17. 10	·01015	19. 20	·01470			
		19. 50	·01020	21. 50	·01470			
		21. 40	·01018	23. 24	·01476			
		23. 51	·01014					
		23. 59	·01016					
July 27		July 27		July 27		July 27		
0. 15	22. 7. 15	0. 0	·01480	0. 25	·01480	1. 40	68·5	69·5
2. 1	12. 30	0. 31	·01490	2. 55	·01500	3. 40	69·0	70·0
2. 42	10. 0	1. 11	·01485	3. 36	·01490	9. 40	70·5	71·5
3. 30	10. 30	1. 31	·01482	4. 30	·01486	21. 40	68·5	69·5
3. 49	3. 15	1. 59	·01484					
		2. 17	·01482	7. 35	·00810			
4. 31	5. 30	2. 20	·01488	7. 50	·00830			
				9. 15	·00850			
4. 58	8. 30	2. 50	·01492	9. 44	·00840			
		3. 15	·01482	10. 47	·00820			
5. 40	5. 15	3. 50	·01487	11. 48	·00810			
7. 3	22. 4. 0	4. 1	·01481	12. 10	·00830			
7. 20	21. 57. 30			14. 20	·00840			
7. 34	22. 0. 30	4. 27	·01020	16. 22	·01410			
7. 50	22. 1. 30	4. 50	·01018					
8. 40	21. 57. 0	4. 57	·01016	21. 47	·01010			
9. 13	56. 20	5. 0	·01022	22. 13	·01350			
9. 30	47. 30			22. 47	·01360			
9. 48	54. 40	5. 54	·00970	23. 0	·01370			
10. 32	21. 56. 10	6. 13	·01012	23. 30	·01380			
10. 54	22. 0. 35	6. 30	·01011					
11. 13	21. 58. 0	7. 47	·01013					

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in terms of the Unit adopted in the Observatory.	Göttingen Mean Solar Time	Vertical Force in terms of the Unit adopted in the Observatory.	Göttingen Mean Solar Time	Inclination. Numbers to be added to 70°.	
							10 11 Magnet.	10 12 Magnet.
July 27		July 27		July 27				
h. m.	° ′	h. m.		h. m.		h. m.		
12. 52	21. 59. 25	7. 10	·01018					
13. 13	22. 2. 15	7. 32	·01024					
13. 38	21. 58. 50	7. 49	·01020					
14. 20	22. 2. 20		·01021					
14. 50	22. 1. 35	8. 20	·01021					
15. 46	21. 57. 0		·01022					
16. 18	58. 40	9. 4	·01021					
		9. 35	·01018					
21. 42	21. 57. 0	9. 49	·00992					
23. 30	22. 2. 30	10. 25	·01021					
		10. 38	·01018					
		11. 42	·01016					
		12. 30	·01020					
		13. 30	·01014					
		14. 27	·01017					
		15. 4	·01020					
		16. 19	·01018					
			870					
		21. 50	·01014					
		23. 30	·01020					
July 28		July 28		July 28		July 28		
1. 40	22. 7. 15	0. 40	·01020	0. 0	·01020	1. 40	68·5	69·5
3. 40	22. 4. 43*	3. 40	·01017	1. 20	·01030	3. 40	69·0	71·0
9. 40	21. 59. 20	9. 40	·01020	2. 10	·01010	9. 40	70·5	72·5
21. 40	58. 26*	23. 40	·01018	3. 14	·01000	21. 40	68·5	69·5
				3. 48	·00990			
				4. 30	·00980			
				4. 50	·00990			
				5. 30	·01000			
				6. 10	·00990			
				7. 27	·00970			
				10. 12	·00980			
				11. 21	·00980			
				12. 20	·00970			
				14. 6	·01010			
				15. 22	·01020			
				16. 42	·01420			
				19. 40	·01370			
				21. 57	·01380			
				22. 35	·01380			
				23. 27	·01380			
July 29		July 29		July 29		July 29		
1. 0	22. 7. 30	1. 0	·01020	1. 0	·01020	1. 40	68·5	69·5
1. 38	7. 0	1. 38	·01021	2. 30	·01030	3. 40	69·0	70·0
3. 0	4. 0	2. 0	·01020	2. 59	·01020	9. 40	70·5	71·5
6. 7		3. 27	·01012	3. 40	·00970	22. 0	68·5	69·5
8. 58	22. 0. 0	3. 55	·01000					
9. 28	21. 58. 30	4. 0	·01015	5. 30	·00970			
11. 6	22. 0. 15	4. 24	·01008	8. 23	·00980			
12. 21	21. 58. 20	7. 14	·01012	10. 31	·00970			
13. 12	59. 15	6. 35	·01004	11. 49	·00970			
14. 39	55. 30	7. 25	·01014	12. 30	·00840			
15. 26	59. 30	7. 44	·01006	14. 37	·01020			
16. 19	55. 25	9. 0	·01002	15. 21	·01410			
17. 13	56. 0	10. 0	·01007	17. 20	·01480			

The indications are taken from the sheets of the Photographic Record, except where a star is attached to the numbers, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in motion. The Symbol (?) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included between the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temp.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 29	° ′ ″	July 29		July 29		h m		
h m		h m		h m				
18. 13	21. 55. 40	10. 16	·1002	18. 46	·01540			
20. 27	22. 1. 10	10. 43	·1006		·01500			
21. 30	0. 0	11. 47	·1000	19. 52	·01520			
22. 40	1. 0	12. 8	·1003	21. 56	·01530			
23. 59	3. 50	12. 37	·1000	22. 43	·01500			
		14. 37	·1012					
		15. 8	·1004					
		16. 8	·1017					
		18. 25	·1015					
		19. 44	·1004					
		21. 50	·1011					
		23. 59	·1000					
July 30		July 30		July 30		July 30		
0. 5	22. 4. 25	0. 0	·1000	0. 10	·01550	11. 10	75 ·0	76 ·0
1. 0	5. 25	0. 49	·0992	0. 46	·01280	21. 40	67 ·0	68 ·0
4. 47	4. 25			2. 9	·01030			
6. 4	2. 45	3. 40	·1008	3. 9	·00790			
9. 32	22. 1. 0	4. 34	·1004		·00840			
10. 4	21. 53. 45	4. 50	·1010	5. 27	·00830			
10. 38	21. 58. 30			6. 20	·00820			
12. 50	22. 0. 10	6. 0	·0990	8. 24	·00790			
13. 36	21. 58. 30	6. 15	·1005	9. 14	·00770			
14. 21	22. 2. 30	6. 55	·1002	10. 38	·00810			
14. 37	1. 20	7. 14	·1008	11. 30	·00890			
15. 17	22. 1. 0	7. 30	·1004	12. 37	·01040			
15. 43	21. 58. 35	9. 19	·1008	14. 35	·01310			
17. 18	22. 0. 0	10. 4	·0998	16. 5	·01540			
17. 54	21. 57. 25	10. 25	·1006		·01560			
20. 10	21. 57. 15	14. 0	·1008	17. 35	·01530			
21. 54	22. 2. 30			19. 50	·01520			
22. 53	3. 0	15. 45	·1018	22. 39	·01520			
23. 59	5. 20	16. 6	·1014	23. 59	·01500			
		16. 50	·1014					
		17. 35	·1021					
		18. 0	·1014					
		21. 10	·1016					
		22. 52	·1013					
		22. 53	·1000					
		23. 59	·0998					
July 31		July 31		July 31		July 31		
0. 17	22. 5. 40	0. 0	·0998	0. 30	·01490	1. 40	69 ·0	71 ·0
1. 35	5. 40	0. 20	·0999	1. 46	·01410	3. 40	72 ·0	73 ·0
2. 35	7. 35	1. 13	·1008	3. 0	·01500	9. 40	74 ·5	74 ·5
5. 13	4. 30	1. 25	·1004	5. 6	·00990	21. 40	67 ·0	68 ·0
5. 47	4. 40	2. 32	·1014	6. 57	·00740			
6. 20	1. 30	3. 8	·1004		·00760			
6. 45	2. 40	4. 23	·1013	8. 17	·00740			
8. 8	1. 35			10. 19	·00760			
10. 50	1. 35	5. 50	·1002	11. 42	·00820			
11. 46	0. 15	6. 15	·1008	13. 20	·00960			
17. 17	1. 30	6. 45	·1000	15. 11	·01160			
20. 7	0. 0	9. 50	·1013	17. 28	·01470			
23. 18	7. 20	10. 40	·1003	18. 10	·01550			
23. 59	7. 30	11. 44	·1018		·01500			
		12. 28	·1013	19. 6	·01510			
		21. 5	·1018	19. 35	·01500			
					·01440			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temp.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	July 31		July 31		h m		
		h m		h m				
		22. 45	·1	20. 17	·01500			
				21. 23	·01510			
		23. 59	·1002	23. 59	·01510			
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 33	22. 7. 30	0. 0	·1002	0. 30	·01510	1. 40	69 ·0	70 ·5
2. 32	9. 25	1. 10	·1004	1. 53	·01470	3. 40	70 ·0	71 ·0
5. 14	4. 0	2. 30	·1000	4. 12	·01270	9. 40	69 ·0	71 ·0
8. 25	1. 30	5. 5	·1001	6. 42	·01210	21. 40	62 ·0	63 ·0
8. 55	2. 30	8. 55	·1021	7. 21	·01130			
9. 47	0. 55	17. 46	·1027	8. 22	·01170			
10. 28	2. 20	18. 15	·1020	10. 19	·01250			
13. 5	1. 0	18. 52	·1026	11. 40	·01390			
13. 50	22. 2. 55	23. 0	·1013	13. 55	·01500			
18. 58	21. 58. 0	23. 28	·1014	15. 1	·01480			
20. 33	21. 59. 30				·01420			
23. 12	22. 3. 0			15. 35	·01470			
				17. 29	·01470			
				20. 26	·01450			
				21. 40	·01460			
					·01490			
				22. 28	·01470			
				23. 59	·01430			
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 22	22. 5. 0	0. 25	·1015	0. 30	·01230	1. 40	66 ·0	68 ·0
1. 25	6. 30	2. 30	·1008	1. 30	·01090	3. 40	67 ·5	69 ·5
2. 20	6. 30	3. 45	·1014	2. 26	·00930	9. 40	71 ·0	72 ·0
9. 9	22. 1. 30	4. 30	·1006	3. 14	·00750	21. 40	66 ·0	68 ·0
18. 44	21. 57. 45	4. 55	·1015	3. 43	·00640			
20. 32	59. 20	5. 13	·1012	3. 47	·00670			
21. 28	21. 58. 0	5. 24	·1016	5. 29	·00680			
22. 12	22. 1. 0	5. 43	·1008	7. 46	·00690			
22. 35	1. 0	6. 45	·1017	9. 45	·00710			
23. 23	3. 30	8. 8	·1016		·00800			
23. 37	6. 30	15. 30	·1023	11. 38	·00750			
23. 59	5. 15	16. 20	·1030	12. 30	·00750			
		22. 0	·1032	14. 12	·00820			
		23. 30	·1027	15. 44	·00970			
				17. 25	·01150			
				19. 8	·01370			
				20. 2	·01490			
				20. 55	·01470			
				22. 22	·01470			
				23. 36	·01450			
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 2	22. 5. 0	1. 40	·0921*	0. 25	·01440	1. 40	66 ·0	68 ·0
0. 17	6. 0	3. 40	·1039*		·01410	3. 40	66 ·0	68 ·0
0. 58	9. 20	9. 40	·1029*	2. 35	·01460	9. 40	64 ·5	67 ·5
1. 22	8. 15	21. 40	·1009*	3. 10	·01500	21. 40	60 ·0	61 ·0
2. 0	11. 15				·01400			
2. 47	9. 30			5. 6	·01410			
2. 58	5. 0							
3. 17	11. 30			9. 36	·01400			
3. 32	12. 45			11. 26	·01390			
3. 42	11. 0			12. 5	·01510			
5. 18	7. 0							
6. 0	12. 10			14. 21	·01380			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 3				Aug. 3				
h m	° ′ ″	h m		h m		h m	°	°
6. 7	22. 9. 30							
6. 16	22. 10. 15			14. 45	·01340			
7. 45	21. 56. 35			18. 9	·01330			
8. 58	22. 3. 15			19. 35	·01590			
9. 25	2. 30							
10. 2	4. 0			22. 15	·01560			
10. 10	22. 2. 20			23. 35	·01510			
11. 2	21. 59. 30							
11. 21	22. 0. 35							
11. 40	21. 58. 30							
12. 6	22. 5. 50							
12. 27	22. 0. 0							
13. 35	21. 45. 10							
13. 56	45. 30							
14. 18	52. 30							
14. 36	59. 35							
14. 52	53. 0							
15. 23	57. 0							
15. 37	56. 20							
16. 17	58. 45							
16. 49	58. 0							
17. 10	58. 30							
17. 22	21. 56. 0							
18. 19	22. 3. 0							
19. 42	21. 56. 30							
21. 43	21. 59. 20							
23. 59	22. 6. 50							
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 17	22. 8. 0	0. 30	·1022	0. 17	·01360	1. 40	60 ·0	61 ·5
2. 17	9. 30	1. 25	·1041	0. 54	·01210	3. 40	60 ·0	62 ·0
4. 0	7. 20	1. 43	·1035	1. 15	·01180	9. 40	61 ·0	63 ·0
4. 18	8. 30	1. 52	·1046	1. 47	·01210	21. 40	59 ·0	60 ·0
5. 14	1. 30	2. 30	·1038	2. 34	·01170			
6. 7	3. 0	3. 55	·1036	3. 6	·01200			
6. 25	0. 50	4. 15	·1038	4. 44	·01250			
7. 8	4. 30		***	7. 23	·01270			
7. 43	2. 20	4. 46	·1054	8. 24	·01210			
8. 1	3. 0	5. 0	·1037	9. 21	·01100			
8. 12	1. 50	5. 10	·1048	10. 22	·01080			
8. 32	3. 50	5. 17	·1038	11. 36	·01060			
8. 53	22. 3. 50	5. 35	·1050	11. 45	·01240			
9. 7	21. 59. 45	5. 45	·1042	12. 47	·01220			
9. 17	22. 3. 0	6. 20	·1044	13. 14	·01190			
9. 36	2. 20	6. 50:	·1053	13. 47	·01220			
9. 58	4. 0		***	14. 36	·01170			
10. 48	22. 1. 50	8. 0	·1038	16. 55	·01260			
11. 8	21. 54. 0	8. 54:	·1052	19. 51	·01250			
11. 35	22. 5. 30	8. 55	·1041	20. 47	·01150			
11. 54	3. 15	9. 14	·1059	21. 40	·01090			
12. 4	22. 4. 0	9. 35	·1041	23. 37	·01050			
12. 25	21. 59. 30	10. 0	·1056					
13. 1	22. 3. 45	10. 15	·1043					
13. 45	21. 55. 30	10. 45	·1048					
13. 52	56. 30	10. 54	·1062					
14. 6	55. 10	11. 6	·1051					
14. 22	59. 30	11. 19	·1059					
15. 12	21. 59. 45	11. 35	·1060					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 4		Aug. 4						
h m	° ′ ″	h m		h m		h m	°	°
15. 37	22. 1. 0	12. 8:	·1041					
16. 26	21. 57. 0	12. 54	·1058					
		13. 23	·1044					
19. 30	21. 57. 0	13. 49	·1078					
21. 32	22. 3. 0	14. 45	·1026					
22. 9	2. 40	15. 0	·1042					
22. 45	5. 30	16. 19	·1048					
22. 53	5. 30		***					
		18. 5	·1042					
		19. 0	·1030					
		20. 6	·1034					
		21. 40	·1024					
		22. 38	·1027					
		23. 0	·1022					
		23. 59	·1018					
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
0. 7	22. 5. 0	0. 10	·1018	0. 45	·01070	1. 40	59 ·0	60 ·0
0. 45	7. 0	0. 30	·1030	1. 53	·01050	3. 40	61 ·0	62 ·0
2. 10	6. 30		***	3. 14	·00990	9. 40	61 ·0	62 ·0
2. 33	8. 50	0. 55	·1023	4. 43	·00870	23. 2	58 ·0	59 ·5
2. 35	8. 35		***	5. 55	·00790			
4. 8	7. 0	2. 38	·1041	7. 44	·00630			
4. 52	2. 0		***	9. 7	·00600			
5. 7	2. 50	4. 20	·1020	10. 35	·00510			
6. 9	3. 0		***	11. 48	·00520			
6. 21	4. 10	5. 50	·1036	12. 50	·00540			
8. 20	3. 50	6. 5	·1028	14. 40	·00550			
8. 59	0. 30	7. 45	·1042	15. 38	·00560			
9. 11	1. 15	8. 29	·1054	17. 42	·00680			
	(†)	8. 45	·1040	19. 32	·00790			
16. 50	22. 1. 10		(†)	21. 43	·00870			
18. 18	21. 59. 0	17. 15	·1024	23. 16	·00880			
19. 50	22. 0. 30	18. 40	·1026					
20. 58	21. 59. 0	19. 55:	·1020					
21. 47	22. 0. 0	21. 15	·1027					
22. 20	3. 0	23. 15	·1024					
23. 18	5. 0							
23. 59	7. 0							
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
	(†)	0. 0	·1023	0. 0	·00880	11. 5	66 ·0	66 ·5
11. 7	22. 1. 30		***	1. 21	·00840	21. 40	60 ·0	61 ·0
11. 22	21. 59. 35	1. 39	·1032	1. 34	·00830			
12. 17	21. 58. 40		(†)		(†)			
13. 13	22. 3. 30	11. 15	·1038	11. 5	·00470			
13. 18	2. 30	12. 15	·1021	12. 32	·00570			
15. 21	1. 0	13. 10	·1026	13. 50	·00580			
15. 42	22. 2. 15	13. 33	·1020	15. 20	·00650			
17. 1	21. 59. 10	16. 30	·1028	18. 25	·00860			
17. 41	22. 1. 0	17. 37	·1024	19. 49	·00960			
18. 20	0. 15	18. 50	·1030	21. 22	·01050			
19. 5	22. 1. 0	22. 0	·1015	22. 49	·01100			
19. 32	21. 59. 20	23. 59	·1008	23. 59	·01080			
20. 20	59. 50							
20. 47	21. 59. 0							
22. 32	22. 2. 20							
23. 59	8. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
h m	° ′ ″	h m		h m		h m		
1. 40	22. 9. 3*	1. 40	·1021*	0. 40	·00700	1. 40	61·0	62·0
3. 40	5. 15*	3. 40	·1025*	1. 58	·00950	3. 40	64·0	65·0
9. 40	0. 32*	9. 40	·1022*	3. 25	·00740	9. 40	68·5	69·0
21. 40	0. 8*	21. 40	·1009	4. 8	·00620 ·00670	21. 40	62·0	66·0
				6. 22	·00710			
				7. 48	·00680			
				10. 53	·00650			
				11. 51	·00670			
				13. 15	·00740			
				15. 50	·00990			
				17. 49	·01250			
				19. 46	·01470 ·01450			
				21. 24	·01430			
				23. 30	·01380			
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
1. 40	22. 8. 12*	1. 40	·1023*	0. 0	·01380	1. 40	65·0	66·0
3. 40	22. 4. 3*	3. 40	·1019*	0. 51	·01280	3. 40	68·5	69·5
9. 40	21. 59. 3*	9. 40	·1014*	1. 54	·01050	9. 40	71·5	71·5
21. 40	59. 44*	21. 40	·1007*	2. 39	·00860	21. 40	65·5	67·0
				3. 8	·00730 ·00770			
				4. 58	·00760			
				7. 51	·00740			
				8. 54	·00750			
				10. 39	·00730			
				11. 25	·00750			
				12. 54	·00840			
				13. 51	·00910			
				16. 58	·01240			
				18. 6	·01370			
				19. 40	·01510			
				19. 42	·01480			
				20. 35	·01470			
				22. 47	·01480			
				23. 59	·01400			
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 53	22. 9. 0	1. 0	·1014	1. 3	·01260	1. 40	68·0	69·5
1. 58	9. 20	4. 2	·1020	2. 46	·00970	3. 40	70·0	71·0
4. 32	22. 2. 0	5. 30	·1013	3. 41	·00780 ·00880	9. 40	70·5	71·5
6. 36	21. 59. 50	6. 49	·1012			21. 40	66·5	68·0
8. 8	22. 0. 50	9. 0	·1022	5. 15	·00810			
9. 31	21. 57. 0	9. 20	·1016	7. 19	·00800			
13. 2	59. 20	9. 45	·1021	7. 23	·00820			
16. 21	58. 30	11. 20	·1013	8. 22	·00790			
	***	12. 0	·1020	10. 7	·00800			
17. 12	58. 40	12. 25	·1016	11. 31	·00890			
17. 56	57. 10	16. 8	·1028	13. 9	·01030			
20. 13	21. 56. 30	22. 14	·1012	15. 30	·01240			
21. 8	22. 0. 30	23. 34	·1021	18. 24	·01550			
22. 16	1. 0	23. 59	·1018	18. 27	·01530			
23. 52	5. 30			20. 41	·01490			
				22. 46	·01480			
				23. 44	·01480			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
h m	° ′ ″	h m		h m		h m		
0. 1	22. 5. 35	0. 0	·1018	0. 0	·01480	1. 40	68·0	69·0
1. 23	8. 30	2. 10	·1023	1. 19	·01420	3. 40	69·5	71·0
2. 8	8. 25	2. 26	·1018	2. 6	·01320	9. 40	71·0	72·0
3. 31	3. 35	3. 0	·1018	2. 16	·01290	21. 40	64·0	66·5
5. 33	1. 30	3. 25	·1019	2. 36	·01250			
9. 40	22. 1. 0	4. 0	·1012	4. 23	·00980			
9. 53	21. 59. 40	4. 48	·1012	5. 19	·00800 ·00830			
11. 4	22. 0. 35	5. 15	·1006					
11. 25	21. 59. 35	6. 15	·1014	6. 35	·00820			
12. 52	22. 0. 50			7. 17	·00810			
13. 22	21. 57. 30	7. 0	·1010	7. 20	·00870			
14. 20	21. 56. 30	9. 30	·1018	8. 39	·00790			
16. 7	22. 0. 35	10. 35	·1014	9. 25	·00790			
18. 6	21. 57. 30	10. 40	·1003	10. 42	·00780			
20. 4	56. 45	11. 3	·1017	11. 32	·00810			
20. 54	21. 58. 30	11. 16	·1010	12. 37	·00890			
21. 25	22. 2. 30		***	14. 25	·01080			
22. 38	4. 0	12. 45	·1014	17. 10	·01510			
23. 17	7. 35	13. 15	·1022	18. 15	·01480			
23. 59	8. 0	14. 30	·1018	20. 15	·01460			
		18. 25	·1028	21. 20	·01470			
		22. 32	·1002	22. 38	·01460			
		23. 50	·1002	23. 20	·01440			
		23. 55	·1006	23. 59	·01340			
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 16	22. 7. 30	0. 0	·1006	0. 6	·01380	1. 40	68·0	69·5
1. 10	5. 30	1. 0	·1002	1. 38	·01150	3. 40	70·5	72·0
2. 25	6. 0	1. 30	·1013	2. 38	·00890	9. 40	73·5	74·0
2. 43	22. 4. 40	2. 30	·1010	3. 15	·00880	21. 40	66·5	68·0
5. 17	21. 59. 0	2. 45	·1004	4. 40	·00860 ·00930			
8. 24	59. 30	3. 16	·1011					
8. 47	58. 15		***	5. 4	·00850			
9. 16	59. 30	4. 50	·1007	7. 24	·00810			
12. 1	59. 20			10. 38	·00820			
12. 47	58. 0	7. 0	·1016	11. 23	·00850			
13. 35	21. 59. 50			12. 17	·00960			
14. 47	22. 0. 0	8. 32	·1007	14. 20	·01140			
15. 12	21. 58. 0	9. 15	·1013	15. 8	·01350			
16. 6	22. 0. 30	12. 0	·1017	16. 56	·01550			
17. 37	21. 57. 0	12. 25	·1021	21. 21	·01550			
20. 15	21. 57. 0	13. 0	·1016	23. 20	·01510			
22. 28	22. 2. 30	15. 0	·1026					
23. 9	2. 10	20. 0	·1027					
23. 59	5. 30	21. 45	·1012					
		23. 59	·1014					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 13	22. 6. 0	0. 0	·1016	0. 0	·01510	1. 40	68·5	70·0
1. 25	8. 0	2. 34	·1016	1. 39	·01430	3. 40	69·0	72·0
5. 7	1. 15	3. 38	·1022	3. 22	·01260	9. 40	72·5	73·5
10. 17	22. 1. 30	14. 30	·1038	5. 20	·01040	22. 31	66·0	67·5
12. 50	21. 58. 40	15. 15	·1034	7. 16	·00980			
14. 2	22. 0. 0	18. 45	·1040	10. 17	·00780			
14. 50	21. 58. 30	20. 30	·1033	12. 18	·00930			
15. 33	22. 2. 30	23. 59	·1032	13. 21	·01060			
16. 44	22. 0. 30			14. 38	·01210			
20. 36	21. 58. 50			16. 47	·01510			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 12				Aug. 12				
h m	° ′ ″	h m		h m		h m	°	°
22. 44	22. 3. 30			16. 49	·01480			
				19. 24	·01490			
				21. 38	·01510			
				22. 39	·01470			
				22. 49	·01460			
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 5	22. 3. 10	0. 20	·1030	0. 0	·01330	9. 57	76 ·0	77 ·5
2. 25 :	7. 15	2. 45	·1010	1. 38	·01070	21. 40	69 ·0	72 ·0
4. 0	22. 4. 0	4. 40	·1004	2. 51	·00820			
8. 32	21. 59. 0	9. 50	·1012	4. 5	·00900			
16. 23	22. 0. 0	18. 15	·1022	6. 8	·00880			
20. 2	21. 57. 30	20. 8	·1019	9. 45	·00850			
21. 15	21. 58. 30	22. 40	·1006	9. 52	·00860			
22. 58	22. 5. 0	23. 59	·1013	10. 45	·00860			
23. 59	5. 35			11. 36	·00880			
				12. 34	·00900			
				14. 23	·00990			
				16. 25	·01210			
				17. 51	·01450			
				18. 48	·01570			
				20. 20	·01550			
				21. 34	·01540			
				22. 51	·01520			
				23. 30	·01520			
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 7	22. 6. 0	0. 0	·1013	0. 0	·01510	1. 40	73 ·0	74 ·0
0. 36	6. 30		***	2. 8	·01280	3. 40	74 ·5	75 ·0
0. 45	8. 0	5. 45	·1010	3. 44	·00950	9. 40	73 ·0	74 ·0
1. 52	22. 8. 30	7. 21	·1016	4. 30	·00810	21. 40	63 ·0	65 ·0
6. 14	21. 59. 30	8. 0 :	·1022		·00850			
12. 15	22. 0. 20	9. 4	·1014	5. 26	·00840			
13. 20	21. 58. 30	16. 45	·1034	6. 47	·00830			
17. 7	58. 30	17. 18	·1030		·00940			
17. 29	59. 35	18. 0	·1036	7. 34	·00900			
18. 28	21. 57. 50	20. 0	·1035	9. 17	·01000			
20. 9	22. 0. 0	22. 53	·1022	11. 24	·01210			
22. 55	6. 30	23. 59	·1016	12. 19	·01370			
23. 59	6. 35			13. 10	·01540			
					·01500			
				14. 58	·01450			
				17. 21	·01460			
				20. 29	·01440			
				22. 41	·01480			
				23. 13	·01460			
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
0. 13	22. 6. 30	0. 0	·1015	0. 0	·01430	1. 40	67 ·5	69 ·5
1. 2	6. 30	3. 32	·1013	1. 26	·01270	3. 40	68 ·5	70 ·5
4. 48	22. 1. 30	9. 45	·1037	3. 38	·00880	9. 40	67 ·0	68 ·0
15. 22	21. 58. 0	14. 45	·1050	4. 38	·00680	21. 40	61 ·0	63 ·0
21. 47	21. 59. 10	18. 45	·1048	4. 43	·00700			
23. 46	22. 5. 0	23. 0	·1038	6. 4	·00690			
				8. 4	·00650			
				9. 22	·00730			
				11. 1	·00840			
				11. 45	·00990			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
				Aug. 15				
h m	° ′ ″	h m		h m		h m	°	°
				12. 40	·01120			
				14. 5	·01510			
				15. 3	·01450			
					·01410			
				16. 40	·01420			
				18. 9	·01420			
					·01330			
				18. 57	·01410			
				20. 19	·01410			
				21. 34	·01390			
				23. 4	·01400			
				23. 39	·01400			
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 1	22. 6. 30	0. 0	·1032	0. 0	·01410	1. 40	63 ·0	63 ·0
1. 20	7. 30		***		***	3. 40	65 ·0	67 ·0
1. 25	6. 0	1. 40	·1027	1. 42	·01280	9. 40	65 ·0	67 ·5
5. 23	1. 0			2. 7	·01210	21. 40	59 ·0	60 ·5
7. 12	0. 0	3. 30	·1038		***			
9. 18	22. 2. 0	3. 36	·1027	4. 23	·00720			
13. 22	21. 59. 30		***		·00640			
17. 10	59. 30	4. 35	·1036	4. 44	·00660			
20. 18	57. 20	7. 0	·1030	6. 59	·00650			
21. 38	21. 59. 30	7. 14	·1038	9. 13	·00650			
22. 52	22. 5. 0	7. 40	·1032	10. 51	·00680			
23. 50	7. 0	7. 55	·1036	11. 33	·00740			
		8. 17	·1032	12. 27	·00830			
			***	13. 21	·00910			
		11. 30	·1037	15. 14	·01210			
		12. 19	·1032	16. 21	·01430			
		19. 0	·1043		·01380			
		22. 15	·1024	18. 37	·01390			
		23. 45	·1019	20. 11	·01400			
				22. 38	·01390			
				23. 35	·01350			
				23. 45	·01330			
Aug. 17		Aug. 17		Aug. 17		Aug. 17		
0. 0	22. 6. 15	0. 20	·1024	0. 0	·01320	1. 40	62 ·5	63 ·5
1 48	8. 25	2. 0	·1035	1. 6	·01220	3. 40	64 ·0	65 ·0
2. 46	5. 30	2. 45	·1030	2. 30	·01040	9. 40	64 ·5	67 ·5
4. 15	4. 40	3. 5	·1026	5. 13	·00690	21. 40	58 ·0	59 ·5
	(†)	3. 33	·1032	6. 16	·00590			
10. 6	0. 40	4. 15	·1034	7. 54	·00640			
11. 42	0. 0		(†)	9. 23	·00640			
12. 0	0. 35	10. 6	·1041	10. 44	·00610			
14. 27	0. 30	18. 17	·1048	11. 36	·00630			
14. 52	2. 20	22. 35	·1034	12. 32	·00670			
15. 45	22. 0. 35	23. 59	·1033	14. 1	·00780			
19. 17	21. 58. 50			16. 10	·01040			
20. 20	21. 59. 30			17. 32	·01250			
22. 15	22. 4. 10			18. 33	·01410			
23. 59	7. 0			18. 35	·01370			
				19. 30	·01370			
				20. 13	·01370			
					·01300			
				20. 50	·01370			
				21. 36	·01360			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		Aug. 17 h m		h m	°	°
				22. 54	·01350			
				23. 8	·01350			
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 14	22. 7. 30	0. 0	·1033	0. 0	·01340	1. 40	61 ·5	67 ·5
1. 0	8. 0	4. 27	·1032	0. 59	·01280	3. 40	63 ·5	65 ·0
2. 25	8. 25	6. 30	·1022	2. 14	·01080	9. 40	65 ·0	66 ·5
5. 50	2. 0	7. 40	·1028	4. 2	·00670	21. 40	62 ·0	64 ·0
7. 56	22. 2. 0	12. 40	·1034	4. 9	·00640			
10. 2	21. 59. 30	12. 59	·1040	4. 12	·00670			
11. 45	22. 0. 35	13. 34	·1034	6. 21	·00690			
19. 15	21. 58. 45	15. 44	·1038	8. 43	·00690			
21. 41	22. 1. 10	19. 25	·1037	10. 40	·00660			
22. 23	2. 40	22. 15	·1026	11. 20	·00650			
				12. 35	·00650			
				13. 54	·00670			
				15. 15	·00730			
				16. 51	·00830			
				18. 44	·01000			
				21. 15	·01230			
				22. 24	·01250			
				23. 20	·01360			
Aug. 19		Aug. 19		Aug. 19		Aug. 19		
1. 40	22. 8. 55*	1. 40	·1021*	1. 40	·00854*	1. 40	68 ·5	70 ·5
3. 40	22. 6. 20*	3. 40	·1016*	3. 40	·00854*	3. 40	70 ·5	72 ·5
9. 40	21. 59. 36*	9. 40	·1017*	9. 40	·00803*	9. 40	74 ·5	76 ·5
23. 20	22. 6. 2*	23. 30	·1008*	23. 20	·01528*	23. 30	68 ·7	70 ·5
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
0. 0	22. 10. 30	0. 5	·1002	0 .	·01510	10. 50	73 ·7	76 ·0
0. 13	12. 35	0. 37	·1017			21. 40	65 ·0	68 ·5
0. 22	12. 0	1. 0	·0998	2. 8	·01310			
1. 4	14. 30	1. 20	·1002					
1. 50	10. 0			3. 54	·00940			
3. 5	10. 35	1. 58	·0989	4. 10	·00850			
4. 40	8. 10				·00890			
6. 1	22. 2. 0	2. 53	·1003	4. 36	·00900			
6. 40	21. 58. 45							
7. 3	54. 10	3. 34	·0988	6. 37	·00890			
7. 20	52. 50	3. 45	·1000	6. 54	·00900			
7. 40	55. 35			7. 5	·00880			
7. 56	54. 0	4. 16	·0996					
8. 22	55. 25			9. 31	·00820			
8. 45	56. 0	4. 54	·1019	9. 43	·00900			
9. 7	57. 0	5. 39	·0989	10. 45	·00940			
9. 52	58. 30	6. 6	·1013	11. 46	·01020			
10. 37	21. 56. 35	6. 28	·1004	12. 16	·01100			
11. 23	22. 0. 30	6. 50	·1028	12. 54	·01150			
11. 55	21. 54. 50	7. 6	·1014	13. 35	·01280			
12. 34	22. 5. 40			14. 44	·01530			
13. 20	21. 53. 45	7. 32	·1016		·01490			
14. 15	22. 5. 30	7. 47	·1002	16. 39	·01490			
15. 4	21. 53. 0	8. 16	·1018	17. 14	·01460			
16. 35	22. 3. 0	8. 31	·1005	18. 40	·01480			
18. 3	21. 55. 40	9. 7	·1003	20. 42	·01490			
19. 45	22. 0. 0	9. 51	·1016	22. 40	·01490			
21. 17	21. 59. 30	10. 15	·1006					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 20 h m	° ′ ″	Aug. 20 h m		h m		h m	°	°
22. 36	22. 3. 30	11. 0	·1019					
23. 32	3. 35	12. 3	·1013					
23. 59	4. 40	12. 30	·1032					
		13. 0	·1020					
		13. 47	·1017					
		14. 23	·1026					
		16. 0	·1020					
		16. 25	·1008					
		17. 6	·1030					
		19. 8	·1035					
		20. 40	·1022					
		21. 55	·1020					
		23. 59	·1018					
Aug. 21		Aug. 21		Aug. 21		Aug. 21		
0. 8	22. 5. 25	0. 0	·1018	0. 0	·01480	1. 40	68 ·5	71 ·5
0. 40	6. 30	1. 0	·1012	1. 32	·01410	3. 40	69 ·5	72 ·5
1. 28	6. 35	3. 0	·1024	2. 45	·01260	9. 55	71 ·0	72 ·5
6. 2	1. 30	4. 55	·1020	4. 37	·01010	21. 40	64 ·0	66 ·0
6. 51	22. 1. 35	5. 10	·1032	5. 14	·00940			
7. 31	21. 59. 25	5. 55	·1016	6. 13	·00880			
8. 58	22. 0. 30	6. 10	·1026	7. 40	·00800			
9. 53	21. 54. 0	7. 37	·1006	9. 11	·00760			
10. 19	21. 58. 35	9. 36	·1014	10. 47	·00740			
11. 32	22. 1. 15	10. 5	·1024	11. 23	·00730			
14. 15	0. 30	11. 0	·1020	14. 13	·00800			
15. 37	2. 50	18. 40	·1030	16. 22	·01080			
17. 16	22. 0. 0	19. 15	·1025	17. 59	·01360			
20. 8	21. 59. 0	22. 29	·1016	18. 45	·01490			
23. 59	22. 8. 30	23. 59	·1014		·01440			
				20. 7	·01460			
				20. 49	·01470			
					·01370			
				21. 46	·01450			
				22. 13	·01430			
				22. 45	·01390			
Aug. 22		Aug. 22		Aug. 22		Aug. 22		
0. 7	22. 8. 30	0. 0	·1010	0. 0	·01490	1. 40	67 ·5	68 ·5
0. 52	9. 0	0. 21	·1008	0. 54	·01440	3. 40	68 ·5	68 ·5
2. 32	5. 50	2. 20	·1018	2. 41	·01100	9. 40	68 ·5	71 ·0
4. 30	22. 0. 0	4. 50	·1003	3. 27	·00920	21. 40	61 ·5	65 ·0
6. 17	21. 57. 30	6. 29	·1010		·00750			
12. 55	22. 1. 0	7. 40	·1007	4. 14	·00780			
13. 43	21. 59. 30	14. 46	·1021	5. 17	·00790			
14. 29	22. 0. 50	16. 30	·1020	7. 50	·00750			
15. 20	21. 57. 30	17. 23	·1030	9. 44	·00730			
16. 10	57. 30	19. 35	·1032	10. 39	·00780			
16. 37	59. 30	20. 55	·1020	11. 41	·00840			
17. 23	55. 45	23. 59	·1027	12. 51	·00980			
20. 17	21. 57. 30			14. 45	·01230			
21. 45	22. 3. 35			16. 5	·01470			
23. 59	9. 30				·01430			
				18. 42	·01430			
				21. 36	·01420			
				22. 23	·01420			
				23. 0	·01430			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.23		Aug.23		Aug.23		Aug.23		
h m	° ′ ″	h m		h m		h m	°	°
0. 8	22. 10. 0	0. 0	·1027	0. 0	·01370	1. 40	64 ·5	67 ·0
0. 40	12. 30	1. 0	·1016	1. 43	·01280	3. 40	68 ·0	68 ·5
2. 25	9. 30		***	3. 2	·01110	9. 40	68 ·5	68 ·5
3. 32	4. 30	2. 15	·1016	4. 30	·00840	21. 40	66 ·0	67 ·5
5. 12	0. 30	2. 37	·1022	5. 24	·00720			
7. 53	22. 0. 0		***	6. 50	·00690			
8. 47	21. 56. 50	3. 30	·1016	8. 38	·00680			
9. 29	58. 0		***	11. 1	·00670			
9. 44	56. 0	4. 5	·1021	11. 25	·00690			
10. 3	56. 20	4. 50	·1012	12. 36	·00750			
10. 17	54. 0	6. 15	·1021	14. 27	·00860			
11. 30	58. 30	6. 53	·1014	16. 17	·00990			
12. 25	58. 20	7. 53	·1022	18. 20	·01090			
13. 0	59. 40	8. 0	·1016	20. 22	·01130			
13. 29	58. 10	8. 27	·1024	21. 49	·01120			
14. 58	59. 30	9. 2	·1020	22. 38	·01080			
15. 38	21. 57. 30	9. 52	·1020	23. 24	·01000			
16. 39	22. 0. 0	10. 7	·1021	23. 31	·00970			
17. 46	21. 56. 0	10. 40	·1033					
18. 18	57. 30	11. 30	·1020					
19. 8	56. 30	12. 5	·1031					
20. 37	58. 0		***					
22. 48	21. 57. 30	13. 7	·1028					
23. 52	22. 9. 30		***					
		17. 25	·1040					
		18. 0	·1034					
		18. 39	·1042					
		22. 38	·1008					
		23. 30	·1007					
		23. 59	·1013					
Aug.24		Aug.24		Aug.24		Aug.24		
0. 10	22. 9. 30	0. 0	·1014	0. 0	·00950	1. 40	69 ·0	71 ·0
2. 2	9. 0	0. 23	·1016	1. 26	·00750	3. 40	71 ·5	73 ·5
3. 55	22. 2. 30	1. 15	·1008	1. 34	·00720	9. 40	73 ·0	73 ·5
6. 7	21. 58. 30	1. 55	·1009		·00780	21. 40	63 ·0	65 ·0
9. 40	21. 58. 0	2. 7	·1003	2. 55	·00840			
11. 13	22. 0. 30	2. 30	·1016	3. 50	·00860			
12. 17	22. 0. 50	2. 45	·1010		***			
12. 34	21. 58. 30	3. 49	·1002	6. 20	·00820			
14. 38	22. 0. 0	4. 10	·1016	7. 37	·00800			
15. 29	21. 58. 40	4. 30	·1005	8. 16	·00780			
16. 0	22. 6. 30	4. 34	·1010	10. 21	·00820			
16. 53:	21. 56. 30	4. 40	·0998	11. 25	·00880			
18. 5	55. 30	4. 50	·1010	12. 24	·00960			
19. 23	57. 30	5. 8	·1003	14. 27	·01220			
20. 48	21. 57. 15		***	16. 19	·01520			
22. 47	22. 4. 30	8. 25	·1018		·01490			
23. 8	4. 0	9. 0	·1015	18. 32	·01470			
23. 59	6. 10	9. 27	·1021	20. 25	·01440			
		10. 14	·1014	21. 45	·01440			
		13. 15	·1023	23. 16	·01450			
		14. 0	·1018					
			***					
		15. 30	·1028					
		15. 53	·1003					
		16. 30	·1034					
		17. 7	·1030					
		18. 38	·1035					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Aug.24						
h m	° ′ ″	h m		h m		h m	°	°
		19. 10	·1028					
		20. 14	·1030					
		21. 0	·1020					
		21. 15	·1020					
		22. 30	·1006					
		23. 59	·0998					
Aug.25		Aug.25		Aug.25		Aug.25		
0. 7	22. 6. 30	0. 0	·0999	0. 0	·01480	1. 40	66 ·0	68 ·0
0. 43	8. 30	0. 21	·0999	0. 25	·01490	3. 40	68 ·0	69 ·0
2. 45	7. 30		***	1. 31	·01380	9. 40	68 ·5	69 ·5
4. 16	22. 0. 30	1. 40	·1012	2. 30	·01210	21. 40	69 ·0	69 ·0
7. 48	21. 57. 20	2. 0	·0998	4. 8	·00910			
9. 17	58. 35	2. 48	·1008	5. 15	·00750			
10. 32	54. 45		***		·00780			
11. 17	56. 45	4. 39	·1001	6. 59	·00770			
11. 33	49. 50	5. 14	·1007	8. 50	·00760			
11. 58	54. 30	5. 47	·1006	9. 32	·00750			
12. 17	53. 30	6. 50	·1013		·00810			
12. 51	55. 30	7. 0	·1006	11. 10	·00820			
13. 38	54. 30	7. 23	·1014	11. 36	·00810			
14. 25	57. 30	7. 46	·1010	12. 29	·00840			
15. 25	21. 53. 0	8. 46	·1015	14. 19	·01090			
16. 2	22. 2. 0	8. 55	·1008	15. 40	·01300			
16. 20	22. 2. 35	9. 45	·1014	16. 35	·01420			
16. 50	21. 55. 0	10. 2	·1022		·01360			
17. 20	52. 50	11. 5	·1019	19. 9	·01390			
18. 15	52. 45	11. 39	·1051	20. 50	·01360			
18. 53	21. 56. 30	12. 45	·1014	21. 42	·01360			
19. 20	22. 3. 30	15. 40	·1028		(†)			
19. 42	22. 3. 0	16. 5	·1013					
20. 38	21. 56. 0	16. 53	·1040					
21. 50	59. 0	17. 45:	·1028					
	(†)	18. 20	·1041					
			***					
		19. 25	·1004					
		19. 51	·1032					
		20. 40	·1022					
		21. 15	·1027					
		21. 50	·1026					
			(†)					
Aug.26		Aug.26		Aug.26		Aug.26		
	(†)		(†)		(†)			
3. 18	22. 4. 45	3. 35	·1027	3. 16	·01160	1. 40	63 ·0	63 ·0
3. 56	22. 2. 30	5. 4	·1017	4. 28	·00940	3. 40	65 ·5	66 ·5
6. 57	21. 58. 30	8. 35	·1023	5. 12	·00710	9. 40	71 ·0	73 ·5
9. 5	58. 30	9. 21	·1020		·00740	23. 8	66 ·0	67 ·0
9. 50	54. 45	9. 53	·1026	7. 14	·00790			
10. 13	57. 15	10. 17	·1018	8. 40	·00820			
10. 28	55. 30	10. 45	·1028	10. 36	·00780			
10. 50	57. 30	11. 13	·1020	12. 40	·00770			
11. 43	58. 30	16. 0	·1024	13. 36	·00750			
17. 18	59. 0	21. 13	·1017	15. 14	·00760			
20. 30:	21. 56. 25	21. 40	·1020	17. 6	·00870			
23. 59	22. 5. 0	23. 59	·1015	19. 50	·01120			
				21. 19	·01250			
				22. 34	·01320			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′	h m		Aug.26 h m		h m		
				23. 21	·01320			
Aug.27		Aug.27		Aug.27		Aug.27		
0. 8	22. 5. 15	0. 0	·1015	0. 0	·01320	10. 24	75 ·0	77 ·0
1. 18	22. 7. 15	1. 55	·1014	1. 36:	·01190	21. 40	68 ·0	69 ·5
6. 33	21. 58. 30	2. 30	·1006	3. 31	·00830 / ·00880			
10. 45	58. 30	8. 21	·1009					
11. 21	52. 40	10. 46	·1017	4. 50	·00860			
11. 55	54. 30	11. 0	·1028	5. 32	·00860 / ·00920			
12. 44	51. 55	11. 15	·1025					
13. 42:	57. 30	11. 51	·1027	6. 15	·00850			
15. 53	56. 25	13. 25	·1008	6. 43	·00850			
16. 57	57. 30	18. 5	·1020	8. 38	·00830			
18. 6	54. 20	20. 46	·1010	10. 18	·00820			
21. 15	21. 59. 0	22. 0	·0996	11. 9	·00830			
23. 15	22. 4. 0	23. 50	·0998	12. 53	·00860			
				14. 14	·00950			
				16. 44	·01130			
				18. 55	·01330			
				20. 22	·01470			
				21. 38	·01560			
				22. 33	·01590			
				23. 13	·01590			
Aug.28		Aug.28		Aug.28		Aug.28		
0. 3	22. 6. 20	0. 15	·0994	0. 30	·01520	1. 40	73 ·0	74 ·0
1. 0	8. 35	1. 55	·0999	1. 16	·01500	3. 40	75 ·0	77 ·0
1. 55	9. 0	2. 30	·0994	1. 53	·01480	9. 40	77 ·5	80 ·0
4. 0	22. 1. 30	7. 46	·1001	3. 32	·01090	21. 40	67 ·0	69 ·0
5. 4	21. 59. 15	9. 45	·1008	4. 16	·00900 / ·00950			
6. 43	58. 20	10. 15	·1006					
7. 47	58. 30	20. 45	·1019	5. 42	·00900			
12. 20	57. 35	22. 0	·1020	6. 30	·00860			
20. 35	21. 58. 0	23. 59	·1013	6. 53	·00920			
22. 17	22. 0. 0			8. 32	·00950			
23. 59	5. 0			9. 52	·00980			
				10. 37	·01020			
				11. 47	·01100			
				12. 59	·01210			
				13. 59	·01360			
				14. 50	·01570			
				16. 52	·01520			
				19. 35	·01500			
				21. 39	·01490			
				22. 36	·01490			
				23. 44	·01450			
Aug.29		Aug.29		Aug.29		Aug.29		
0. 5	22. 5. 15	0. 0	·1013	0. 0	·01460	1. 40	71 ·0	73 ·0
0. 56	4. 30	0. 15	·1006	0. 57	·01400	3. 40	74 ·0	75 ·5
1. 20	7. 0	1. 0	·1004	2. 34	·01180	9. 40	76 ·0	78 ·0
1. 38	5. 30	1. 25	·1013	3. 42	·00970	21. 40	69 ·5	70 ·0
3. 35	3. 0	1. 51	·1000	4. 24	·00810			
4. 40	22. 2. 0				(†)			
	(†)	3. 38	·1000	9. 36	·00690			
9. 29	21. 59. 30		(†)	10. 49	·00810			
16. 6	21. 59. 0	9. 30	·1016	11. 37	·00860			
16. 13	22. 1. 30	10. 45	·1011	12. 22	·00910			
17. 15	21. 56. 25	12. 20	·1012	13. 50	·01070			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.29 h m	° ′ ″	Aug.29 h m		Aug.29 h m		h m		
18 1	58. 30	16. 7	·1021	15. 58	·01360			
21. 35	21. 58. 30	17. 6	·1032	17. 14	·01540 / ·01560			
22. 30	22. 3. 0	18. 7	·1024					
23. 59	5. 40	18. 49	·1030	19. 36	·01500			
				21. 40	·01490			
		20. 50	·1024	22. 36	·01520			
		21. 30	·1018	23. 38	·01490			
		22. 16	·1000					
		22. 30	·1008					
		23. 14	·0991					
		23. 33	·1000					
Aug.30		Aug.30		Aug.30		Aug.30		
0. 8	22. 6. 30	0. 0	·1001	0. 0	·01470	1. 40	73 ·0	74 ·0
2. 33	6. 0	0. 30	·1000	1. 40	·01150	3. 40	76 ·0	78 ·0
2. 55	7. 10	0. 44	·0994	2. 48	·00830 / ·00860	9. 40	78 ·5	80 ·5
3. 15	22. 4. 0	0. 55	·1004			21. 40	66 ·0	68 ·0
7. 12	21. 58. 20	1. 15	·1000	3. 39	·00900			
8. 43	59. 0	2. 15	·1010	5. 6	·00920			
9. 1	56. 35	2. 55	·1022					
9. 50	58. 10	3. 15	·0998	8. 34	·00890			
		4. 7	·1005	9. 15	·00900			
12. 50	54. 35	4. 30	·1000	10. 31	·00930			
				11. 43	·01010			
13. 56	56. 35	5. 9	·1010	12. 36	·01110			
14. 12	54. 20	5. 15	·1000	14. 10	·01350			
14. 31	57. 0			15. 18	·01550 / ·01510			
15. 13	56. 0	5. 54	·0998					
15. 37	21. 51. 0			17. 15	·01500			
		7. 13	·1012	19. 8	·01480			
16. 57	22. 2. 30			20. 24	·01480			
		8. 14	·1013					
18. 17	21. 54. 25			21. 36	·01510			
		8. 52	·1001	22. 21	·01520			
19. 13	55. 30	9. 10	·1016	23. 35	·01450			
19. 40	56. 20	9. 16	·1010					
20. 22	52. 25							
20. 44	57. 30	12. 14	·1016					
20. 53	21. 57. 0	12. 25	·1025					
21. 20	22. 5. 30	12. 55	·1016					
21. 54	1. 0							
22. 0	3. 0	13. 49	·1022					
22. 52	0. 50	13. 58	·1018					
23. 43	3. 30	15. 0	·1036					
		15. 33	·1021					
		16. 34	·1020					
		17. 31	·1042					
		18. 28	·1032					
		19. 0	·1042					
		19. 25	·1027					
		20. 53	·1011					
		21. 14	·1022					
		21. 31	·1012					
		22. 0	·1023					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′	Aug. 30 h m		h m		h m	°	°
		22. 30	·1000					
		23. 4	·1015					
		23. 59	·1001					
Aug. 31		Aug. 31		Aug. 31		Aug. 31		
0. 7	22. 4. 0	0. 0	·1002	0. 0	·01430	1. 40	72 ·0	74 ·0
0. 25	7. 0		***		***	3. 40	73 ·5	77 ·5
0. 43	5. 10	2. 15	·1000	1. 41	·01210	9. 40	74 ·0	79 ·0
2. 25	5. 30			2. 50	·01000	21. 40	60 ·0	62 ·0
2. 46	4. 30	2. 45	·0999	4. 10	·00770			
3. 2	5. 30			4. 12	·00800			
3. 22	22. 3. 10	3. 9	·1013	4. 51	·00800			
7. 32	21. 56. 0		***		***			
8. 1	58. 35	3. 22	·1000	7. 17	·00780			
8. 20	50. 0	3. 51	·1000	8. 14	·00790			
	***		***		***			
8. 46	56. 0	5. 25	·1015	9. 35	·00810			
8. 56	47. 10		***	10. 35	·00890			
9. 23	50. 0	6. 9	·1000	11. 10	·00930			
10. 2	55. 35		***	11. 36	·00980			
10. 35	54. 30	6. 30	·1024	12. 20	·01080			
11. 32	57. 35		***	12. 50	·01160			
11. 57	21. 58. 20	6. 58	·1010	14. 21	·01480			
12. 17	22. 3. 0	7. 5	·1016		·01430			
12. 50	21. 57. 35	7. 30	·1008	15. 41	·01440			
13. 13	58. 30		***	17. 55	·01430			
13. 56	55. 30	8. 8	·1015	18. 50	·01430			
14. 38	58. 45		***		·01350			
15. 37	54. 0	8. 24	·1025	19. 26	·01420			
16. 13	21. 56. 45		***	20. 36	·01420			
16. 58	22. 0. 30	8. 49	·1011	22. 39	·01440			
18. 1	21. 56. 30	9. 0	·1024	23. 24	·01440			
19. 40	58. 20	10. 0	·0998					
20. 55	21. 57. 0	10. 38	·1001					
21. 36	22. 1. 0	11. 9	·1021					
22. 32	1. 30	11. 30	·1004					
23. 0	4. 30	12. 17	·1019					
23. 8	4. 30	12. 50	·1003					
23. 59	4. 25	13. 40:	·1013					
		14. 45	·1010					
		16. 15	·1010					
		18. 45	·1004					
		17. 30:	·1018					
		18. 48	·1022					
		19. 23	·1013					
		21. 8	·1010					
		22. 5:	·0988					
		22. 46	·0990					
		23. 59	·0990					
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
0. 10	22. 5. 0	0. 0	·0990	0. 0	01420	1. 40	65 ·0	66 ·5
2. 45	8. 30		***		***	3. 40	70 ·0	71 ·0
3. 47	0. 25	1. 0	·1000	1. 46	·01240	9. 40	69 ·0	71 ·5
5. 12	22. 1. 0		***	3. 36	·00940	21. 40	58 ·0	60 ·0
5. 37	21. 59. 30	1. 47	·0990	4. 54	·00740			
6. 2	51. 0		***		***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 1 h m	° ′	Sept. 1		Sept. 1		h m	°	°
6. 46	21. 56. 30	2. 28	·1007	6. 32	·00760			
7. 30	57. 0	2. 34	·1000	7. 55	·00710			
8. 8	54. 0	3. 41	·1001	8. 26	·00700			
8. 28	44. 35		***	8. 38	·00710			
8. 30	44. 0	3. 47	·0995	9. 59	·00760			
8. 49	51. 30		***	11. 11	·00830			
9. 50	57. 0	4. 33	·1007	12. 11	·00920			
10. 19	21. 56. 30	5. 0	·1000	13. 28	·01140			
11. 25	22. 0. 0	5. 14	·1007		·01420			
12. 10	21. 55. 10		***	14. 45	·01380			
12. 40:	22. 0. 50	6. 2	·0990	16. 51	·01390			
13. 17	21. 58. 15	6. 27	·1021	18. 18	·01400			
13. 32	57. 0	6. 40	·1000	18. 22	·01370			
14. 16	55. 0	8. 7	·1000	18. 46	·01410			
14. 44	21. 55. 50	8. 21	·0991	19. 57	·01390			
15. 15	22. 0. 0	8. 45	·1028	21. 15	·01380			
15. 37	22. 0. 0	9. 5	·1010	21. 29	·01380			
16. 32	21. 57. 30	10. 14	·1006	23. 11	·01350			
16. 44	58. 15	10. 55	·1008					
17. 8	21. 58. 10		***					
18. 6	22. 0. 0	12. 2	·1036					
19. 18	21. 58. 30	12. 25	·1024					
19. 31	59. 35	12. 55	·1028					
21. 0	58. 40		***					
21. 38	21. 59. 0	15. 15	·1013					
23. 25	22. 4. 30	19. 10	·1030					
23. 58	6. 30	19. 55	·1020					
		20. 53	·1032					
		23. 8	·1012					
		23. 59	·1010					
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 5	22. 7. 30	0. 0	·1010	0. 0	·01300	1. 40	62 ·0	64 ·0
0. 24	9. 35	0. 14	·1002	0. 24	·01270	3. 40	69 ·0	71 ·5
1. 22	22. 6. 30	0. 40	·0996	1. 43	·01030	9. 40	68 ·8	70 ·3
5. 29	21. 58. 35	1. 45	·1010	2. 40	·00730	22. 15	60 ·0	62 ·0
6. 16	57. 40		***	3. 20	·00800			
6. 32	55. 25	3. 15	·1004	4. 31	·00830			
7. 28	57. 30	4. 41	·1003	6. 30	·00770			
9. 53	56. 0	5. 9	·0998	8. 11	·00740			
10. 9	54. 0	6. 0	·1000	9. 15	·00740			
10. 30	21. 54. 45	6. 34	·0990	10. 14	·00810			
10. 48	22. 2. 0	7. 20	·1000	10. 38	·00860			
10. 47	21. 56. 35	7. 34	·0998	11. 35	·00920			
12. 50:	58. 30		***	12. 33	·01070			
13. 1	21. 55. 35	9. 35	·1010	13. 40	·01210			
13. 29:	22. 0. 30	10. 23	·1008	14. 19	·01350			
14. 9	21. 56. 0	11. 15	·1024	14. 59	·01470			
18. 15	21. 58. 30	12. 3	·1014	15. 0	·01440			
19. 17	22. 0. 0	12. 54	·1014	16. 25	·01440			
20. 32	21. 59. 0	13. 7	·1010	19. 36	·01420			
22. 32	22. 3. 30	14. 27	·1016	21. 20	·01430			
23. 59	5. 40	18. 30	·1010	22. 10	·01440			
		19. 12	·1021	22. 55	·01420			
		21. 10:	·1022					
		22. 20	·1013					
		23. 59	·1007					

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Göttingen Mean Solar Time.	Western Declination.
Sept. 3	
h m	° ′ ″
0. 14	22. 5. 30
1. 43	5. 30
3. 52	22. 0. 0
6. 42	21. 58. 25
10. 56	57. 30
15. 37	58. 30
18. 28	59. 30
20. 2	21. 57. 15
22. 39	22. 3. 10
23. 59	6. 30
Sept. 4	
0. 13	22. 6. 50
1. 16	22. 7. 35
4. 2	21. 59. 45
6. 10	56. 30
7. 43	56. 0
8. 0	54. 30
8. 40	56. 25
9. 13	55. 30
9. 52	57. 0
12. 48	58. 25
19. 2	56. 30
21. 23	21. 59. 0
23. 59	22. 7. 15
Sept. 5	
0. 28	22. 7. 30
1. 5	8. 30
3. 10	4. 20
3. 51	1. 30
5. 18	22. 0. 15
8. 56	21. 58. 0
9. 53	59. 45
12. 15	21. 57. 45
18. 37	22. 0. 0
20. 6	21. 57. 25
21. 35	21. 59. 45
23. 32	22. 7. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 3	
h m	
0. 14	·1006
1. 43	·1000
3. 52	·0992
6. 42	·0991
10. 56	·1004
15. 37	·1020
18. 28	·1021
20. 2	·1008
Sept. 4	
0. 13	·1007
1. 16	·1006
4. 2	·0972
6. 10	·0983
7. 43	·0978
8. 0	·0987
8. 40	·1016
9. 13	·1014
9. 52	·1002
12. 48	·1006
Sept. 5	
0. 28	·1006
1. 5	·1020
3. 10	·1004
3. 51	·1025
5. 18	·1007
8. 56	·1004

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 3	
h m	
0. 0	·01320
0. 49	·01200
1. 35	·01310
2. 27	·00760
	·00790
4. 32	·00870
6. 35	·00810
8. 8	·00760
9. 39	·00760
10. 35	·00790
11. 1	·00830
11. 46	·00920
13. 38	·01260
14. 40	·01500
	·01470
16. 25	·01450
18. 11	·01410
20. 23	·01400
21. 45	·01410
22. 32	·01410
23. 5	·01360
23. 45	·01280
Sept. 4	
0. 0	·01260
1. 32	·00970
2. 15	·00760
	·00780
3. 24	·00840
5. 23	·00940
7. 54	·00760
9. 18	·00800
10. 57	·00910
11. 33	·00980
12. 20	·01080
14. 2	·01320
15. 5	·01510
	·01490
17. 49	·01460
19. 55	·01420
21. 35	·01430
22. 33	·01400
23. 10	·01350
23. 32	·01310
Sept. 5	
0. 45	·01160
2. 23	·00850
3. 4	·00710
	·00730
5. 44	·00750
7. 38	·00730
9. 5	·00720
10. 21	·00780
11. 47	·00950
12. 15	·01040
13. 30	·01230
14. 40	·01470

Göttingen Mean Solar Time.	Readings of Thermometers.		
	Of H. F.	Of V. F.	
Sept. 3			
h m			
9. 52	71 ·2	73 ·5	
21. 40	59 ·0	60 ·0	
Sept. 4			
1. 40	64 ·0	65 ·0	
3. 40	70 ·0	72 ·5	
9. 40	71 ·0	73 ·0	
21. 40	60 ·0	62 ·0	
Sept. 5			
1. 40	65 ·8	68 ·0	
3. 40	69 ·0	70 ·0	
9. 40	69 ·0	70 ·0	
21. 40	58 ·0	59 ·0	

Göttingen Mean Solar Time.	Western Declination.
Sept. 5	
h m	° ′ ″
23. 59	22. 8. 0
Sept. 6	
0. 23	22. 8. 0
1. 46	22. 7. 35
4. 2	21. 59. 45
6. 15	57. 0
10. 35	57. 30
11. 18	55. 0
12. 55	58. 35
20. 8	57. 10
21. 23	21. 59. 45
23. 0	22. 5. 40
23. 45	6. 25
Sept. 7	
0. 0	22. 6. 35
2. 15	22. 4. 30
5. 43	21. 58. 25
7. 32	21. 59. 30
21. 17	22. 0. 0
23. 8	4. 50
23. 32	4. 10
23. 55	5. 0
Sept. 8	
0. 2	22. 6. 0
0. 35	6. 20
1. 52	22. 5. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 6	
0. 0	·1004
1. 0	·1010
4. 33	·0992
7. 37	·0986
9. 36	·0992
10. 45	·0991
11. 0	·1000
12. 50	·1000
18. 30	·1016
23. 30	·1014
23. 59	·1010
Sept. 7	
0. 0	·1010
3. 50	·1003
6. 35	·0995
11. 0	·1006
18. 30	·1014
20. 30	·1005
22. 0	·0996
23. 30	·0990
23. 59	·1000
Sept. 8	
0. 0	·1001
2. 36	·1010

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 5	
h m	
14. 54	·01450
17. 9	·01430
18. 55	·01420
	·01380
19. 16	·01410
21. 20	·01410
22. 53	·01360
23. 44	·01310
Sept. 6	
0. 15	·01250
1. 34	·01030
2. 38	·00720
	·00760
3. 36	·00800
5. 35	·00800
7. 36	·00760
9. 27	·00740
10. 31	·00830
11. 20	·00910
11. 50	·00980
12. 22	·01040
13. 36	·01250
14. 51	·01490
14. 54	·01470
16. 38	·01450
18. 36	·01430
21. 9	·01400
22. 40	·01380
23. 54	·01310
Sept. 7	
0. 0	·01280
1. 12	·01110
2. 9	·00880
2. 34	·00740
2. 36	·00760
4. 27	·00800
6. 40	·00790
8. 50	·00750
9. 32	·00740
10. 36	·00740
11. 42	·00790
12. 21	·00810
13. 40	·00900
15. 18	·01050
16. 42	·01210
18. 31	·01510
18. 33	·01480
20. 16	·01470
21. 39	·01450
22. 54	·01460
23. 45	·01480
Sept. 8	
0. 15	·01490
1. 36	·01420
2. 41	·01230

Göttingen Mean Solar Time.	Readings of Thermometers.		
	Of H. F.	Of V. F.	
Sept. 6			
1. 40	64 ·0	65 ·0	
3. 40	67 ·0	68 ·0	
9. 40	70 ·0	72 ·0	
21. 40	59 ·0	61 ·0	
Sept. 7			
1. 40	65 ·0	67 ·0	
3. 40	70 ·0	71 ·0	
9. 40	71 ·0	73 ·5	
21. 40	63 ·0	64 ·0	
Sept. 8			
1. 40	65 ·0	68 ·0	
3. 40	68 ·5	70 ·0	
9. 40	68 ·0	71 ·0	

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
h m	° ′ ″	h m		h m		h m		
3. 35	21. 58. 0	5. 55:	·0995	4. 10	·00870	21. 40	60 ·0	62 ·0
4. 40	56. 30							
6. 16	58. 30	8. 23	·1003	4. 45	·00880			
9. 55	59. 30	8. 27	·1018	5. 24	·00740			
	***	8. 35	·1013	5. 33	·00760			
13. 32	54. 25	9. 31	·1018	5. 43	·00760			
13. 58	57. 30	10. 0:	·1010	6. 50	·00730			
	***	11. 32	·1005	8. 22	·00720			
14. 41	56. 30	12. 5	·1018	8. 28	·00730			
20. 10	21. 58. 30	12. 25	·1007	9. 38	·00780			
23. 56	22. 6. 25			10. 37	·00920			
		14. 50	·1013	11. 18	·01040			
		15. 15	·1022	12. 55	·01320			
		17. 55	·1020	13. 50	{ ·01490			
		19. 23	·1006		{ ·01450			
		19. 52:	·1013	16. 35	·01430			
		21. 0	·1001	18. 40	·01430			
		22. 0	·1001	21. 13	·01420			
		23. 18	·0994	22. 55	·01420			
		23. 59	·0995	23. 53	·01390			
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	22. 5. 15	0. 0	·0995	0. 15	·01370	1. 40	64 ·0	66 ·0
1. 44	8. 20			1. 5	·01320	3. 40	66 ·0	68 ·0
3. 0	3. 30	1. 0	·1003	2. 14	·01170	9. 40	66 ·0	68 ·5
3. 40	22. 2. 45		***	3. 51	·00800	22. 6	57 ·0	59 ·0
4. 29	21. 59. 45	3. 0	·0995	4. 15	{ ·00710			
5. 40	57. 35	3. 54	·1004		{ ·00740			
8. 22	59. 30	4. 25	·0998	6. 21	·00710			
8. 56	53. 25			7. 23	·00670			
9. 13	55. 25	5. 0	·1002	8. 39	·00670			
9. 45	55. 45	5. 46	·1000	9. 41	·00730			
10. 12	59. 0	8. 10	·1010	11. 20	·00880			
17. 32	58. 35	8. 30	·1005	11. 54	·00960			
19. 55:	21. 57. 0	18. 40	·1026	12. 36	·01060			
22. 48	22. 3. 30	22. 23	·1004	14. 9	·01310			
		22. 46	·1004	14. 56	{ ·01450			
			(†)		{ ·01420			
				16. 57	·01400			
				18. 39	·01400			
				20. 53	·01380			
				21. 58	·01370			
				22. 58	·01350			
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
1. 46	22. 7. 25	2. 0	·1014	0. 0	·01350	11. 39	62 ·0	64 ·0
5. 53	21. 59. 15	2. 39	·1012	1. 24	·01320	21. 40	55 ·0	57 ·0
6. 32	22. 2. 10	3. 7	·1022	2. 22	·01220			
9. 1	21. 59. 25			3. 44	·00990			
9. 41	57. 10	4. 53	·1010	4. 43	·00760			
10. 10	57. 30	5. 15:	·1023	5. 12	·00650			
10. 47:	55. 30	6. 0	·1008	5. 15	·00670			
11. 32:	58. 30	6. 16	·1017		***			
12. 18	57. 45	6. 30	·1006	7. 5	·00670			
14. 10	59. 30	6. 45	·1016	8. 32	·00950			
14. 48	21. 56. 30	7. 0	·1006	9. 42	·00640			
15. 12	22. 3. 0	8. 2	·1018	10. 45	·00670			
15. 46	22. 2. 30	8. 19	·1013	12. 39	·00750			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
h m	° ′ ″	h m		h m		h m		
16. 2	21. 58. 25	10. 15	·1023	13. 30	·00980			
16. 24	22. 0. 20	11. 0	·1018	14. 25	{ ·01090			
16. 40	21. 57. 0	14. 46	·1028		***			
16. 53	58. 0	15. 4	·1015	16. 29	·01410			
17. 0	21. 57. 30	15. 50	·1040	16. 32	·01390			
17. 26	22. 3. 30	16. 5	·1030	16. 55	·01360			
17. 37	3. 20		***	17. 44	·01350			
17. 59	12. 30	16. 50:	·1042	18. 25	·01310			
18. 35	1. 0		***	18. 59	·01300			
18. 45	22. 2. 30	17. 40	·1034	19. 2	·01270			
19. 1	21. 56. 30	18. 37:	·1054	19. 5	·01290			
	***		***		***			
19. 55	22. 0. 30	21. 5	·1025	21. 36	·01330			
	***	21. 25	·1026	22. 11	·01320			
20. 53	21. 58. 0	21. 45	·1037	23. 0	·01270			
22. 1	22. 2. 0	22. 28	·1020					
22. 44	7. 0	22. 35	·1035					
22. 53	5. 45		***					
23. 3	8. 30	23. 31	·0997					
23. 7	6. 30							
23. 59	9. 0							
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
0. 17	22. 10. 30	0. 3	·1004	0. 0	·01250	1. 40	60 ·0	62 ·0
	***		(†)		***	3. 40	66 ·0	67 ·0
1. 30	8. 0	2. 55	·0988	1. 33	·01100	9. 40	65 ·5	67 ·0
1. 43	13. 30	3. 16	·1015	2. 3	·00980	21. 40	56 ·0	58 ·0
2. 9	7. 35	3. 31	·0992		***			
2. 12	9. 0	3. 37	·1002	2. 23	·00930			
2. 29	4. 15	3. 52	·0970	2. 32	·00920			
2. 42	8. 30	4. 14	·1000	2. 39	·00870			
2. 47	3. 35	4. 29	·0992	2. 51	·00860			
3. 2	11. 0	4. 36	·0998	3. 5	·00810			
3. 20	15. 0	4. 46	·0990	3. 8	·00830			
3. 30	20. 0	5. 23	·1028		***			
3. 45	10. 0	5. 43	·0999	3. 24	·00860			
4. 10	12. 35	5. 50	·1002	3. 35	·00850			
5. 2	11. 0	6. 0	·0983	3. 50	·00890			
5. 28	22. 12. 30	6. 7	·0994	4. 14	·00870			
5. 55	21. 56. 30	6. 23	·1000		***			
6. 5	22. 0. 30	6. 33	·0988	5. 28	·00920			
6. 14	21. 52. 30	6. 44	·0998	5. 39	·01000			
6. 16	54. 0	7. 1	·0971	5. 50	·00990			
6. 26	42. 45	7. 10	·0985	6. 20	·01080			
6. 47	50. 35	7. 34	·0968	6. 37	·01000			
6. 57	46. 45	7. 40	·0978	6. 51	·00980			
7. 19	56. 25	7. 56	·0974	7. 9	·00940			
7. 29	52. 30	8. 8	·0984	7. 45	·00890			
7. 42	56. 20	8. 30	·0965	8. 8	·00870			
8. 6	52. 25	8. 55	·0998	8. 15	·00850			
8. 37	32. 30	9. 17	·0968	8. 40	·00850			
9. 5	50. 10	10. 10	·0970	8. 51	·00830			
9. 54	54. 0	11. 14	·0992	9. 5	·00810			
10. 23	50. 30	11. 40	·1014	9. 50	·00800			
11. 9	21. 55. 30	12. 0	·1010	10. 9	·00770			
11. 43	22. 3. 30	12. 19	·1009	10. 40	·00820			
12. 34	21. 58. 25		(†)	11. 19	·00870			
13. 32	22. 2. 40	15. 0	·1009	11. 50	·00880			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in Parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 11		Sept. 11		Sept. 11				
h m	° ′ ″	h m		h m		h m		
14. 2	22. 0. 55	19. 30	·1018	12. 53	·00990			
14. 25	22. 2. 0	21. 30	·1018	13. 54	·01110			
15. 10	21. 59. 30	23. 5	·1002	14. 42	·01230			
20. 23	21. 58. 25	23. 30	·1002	15. 51	·01430			
23. 23	22. 3. 30			16. 16	·01450			
				16. 19	·01470			
				18. 23	·01450			
				20. 17	·01440			
				21. 5	·01430			
				22. 21	·01440			
				23. 30	·01400			
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 10	22. 3. 35	0. 5	·1003	0. 0	·01360	1. 40	65 ·0	66 ·0
1. 13	4. 30			1. 5	·01200	3. 40	69 ·5	71 ·5
2. 55	1. 0	3. 0	·1000	2. 19	·00800	9. 40	74 ·0	74 ·5
3. 5	5. 0	3. 7	·1023	2. 34	·00830	21. 40	67 ·5	68 ·0
3. 17	22. 2. 0	3. 25	·1000	3. 15	·00850			
7. 40	21. 58. 0	6. 30	·0999	3. 17	·00880			
7. 51	59. 15	6. 55	·1006	3. 23	·00860			
8. 7	54. 15	7. 58	·0990	4. 12	·00860			
8. 32	58. 35	8. 31	·0998	5. 55	·00850			
8. 52	53. 35	8. 45	·0990	6. 48	·00850			
9. 32	58. 30	9. 33	·0996					
9. 37	57. 30	9. 55	·1017	8. 3	·00830			
9. 55	59. 0	11. 15	·1000	8. 36	·00840			
10. 17	54. 30			8. 38	·00830			
11. 17	57. 0	14. 0	·1006	9. 54	·00800			
11. 58	55. 35	14. 45	·1003	10. 8	·00790			
14. 0	58. 20	15. 57	·1016	11. 25	·00780			
14. 46	53. 0	18. 15	·1020	12. 20	·00820			
15. 16	59. 30	18. 26	·1014	14. 21	·00980			
19. 16	56. 15	22. 8	·1005	15. 40	·01040			
20. 52	21. 58. 30	23. 59	·1010	16. 55	·01230			
23. 59	22. 5. 0			18. 24	·01380			
				19. 54	·01470			
				21. 27	·01540			
				22. 35	·01530			
				23. 30	·01520			
				23. 59	·01510			
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 16	22. 3. 30	0. 0	·1010	0. 54	·01380	1. 40	69 ·0	70 ·0
1. 32	4. 0	3. 30	·1020	2. 27	·01410	3. 40	71 ·0	72 ·5
4. 36	0. 0	3. 55	·1013	4. 50	·01270	9. 40	71 ·5	72 ·5
5. 30	22. 0. 25	5. 7	·1016	6. 53	·01180	21. 40	68 ·0	70 ·0
6. 26	21. 59. 25	5. 32	·1024	7. 53	·01150			
7. 5	22. 0. 40	6. 23	·1002	9. 8	·01120			
10. 42	21. 59. 0	7. 0	·1016	10. 24	·01140			
11. 8	56. 45	10. 55	·1021	11. 16	·01170			
12. 25	54. 25	12. 1	·1024	11. 54	·01200			
12. 42	56. 45			12. 0	·01220			
13. 12	56. 0	12. 45	·1016	14. 5	·01250			
13. 34	21. 53. 0	13. 15	·1020	14. 15	·01230			
14. 7	22. 3. 15	13. 57	·1002	14. 53	·01220			
14. 22	21. 56. 30	14. 46	·1040	15. 31	·01240			
14. 45	52. 35	15. 33	·1013	15. 52	·01280			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in Parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 13		Sept. 13		Sept. 13				
h m	° ′ ″	h m		h m		h m		
15. 0	21. 55. 30	15. 55	·1021	16. 40	·01440			
15. 18	55. 10	17. 30	·1022	17. 31	·01410			
15. 55	52. 15							
		18. 15	·1030	18. 13	·01460			
17. 58	57. 20	19. 40	·1010	19. 22	·01530			
18. 17	55. 15	20. 55	·1014	19. 32	·01520			
		22. 0	·1001	20. 8	·01520			
18. 45	57. 30	22. 30	·1006					
		23. 0	·1000	21. 54	·01540			
19. 36	55. 0	23. 59	·1004	23. 32	·01550			
20. 53	21. 57. 0							
21. 13	22. 0. 45							
21. 37	21. 59. 30							
23. 38	22. 3. 15							
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 0	22. 4. 30	0. 0	·1003	0. 0	·01540	1. 40	69 ·0	71 ·0
0. 36	5. 10	0. 28	·1000	2. 23	·01430	3. 40	69 ·0	71 ·0
2. 17	22. 4. 0	2. 0	·1014	5. 35	·01230	9. 48	66 ·0	68 ·0
4. 37	21. 58. 35	4. 23	·1017	8. 18	·01400	21. 40	62 ·0	63 ·0
10. 49	21. 57. 45	4. 32	·1024	9. 53	·01530			
11. 2	22. 1. 30	4. 43	·1015	10. 28	·01540			
11. 21	21. 57. 30			11. 35	·01520			
11. 39	59. 35	10. 24	·1027	12. 10	·01520			
12. 4	56. 30			12. 40	·01520			
13. 6	54. 0	11. 47	·1020	12. 45	·01480			
13. 26	56. 25	12. 44	·1030	13. 13	·01510			
13. 40	55. 30	13. 27	·1023	13. 54	·01490			
14. 0	57. 0	18. 9	·1034	19. 44	·01480			
15. 38	53. 35	19. 23	·1028	22. 31	·01480			
16. 25	56. 35	20. 0	·1023	23. 35	·01430			
17. 2	56. 15	21. 25	·1016	23. 59	·01420			
17. 52	58. 0	21. 40	·1020					
20. 20	21. 57. 25	23. 10	·0995					
21. 27	22. 2. 0	23. 59	·1000					
22. 53	4. 30							
23. 47	8. 25							
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
0. 2	22. 7. 30	0. 0	·1004	0. 15	·01410	1. 40	65 ·0	67 ·0
0. 38	6. 0	3. 13	·1000	1. 36	·01280	3. 40	68 ·0	69 ·5
1. 5	5. 10	3. 27	·1016	3. 10	·01000	9. 40	69 ·0	70 ·0
1. 12	2. 0	3. 37	·1005	3. 53	·00840	21. 40	68 ·0	69 ·0
2. 23	3. 0	4. 25	·1007	4. 25	·00730			
3. 39	0. 0	4. 50	·1018	4. 27	·00760			
6. 2	22. 0. 0			7. 4	·00750			
6. 37	21. 59. 30	5. 26	·1002	7. 9	·00770			
7. 4	56. 0			11. 1	·00730			
7. 21	58. 0	6. 40	·1010	11. 51	·00730			
7. 45	56. 30	6. 55	·1001	12. 45	·00720			
9. 3	58. 45	7. 15	·1013	14. 40	·00660			
9. 55	57. 15			19. 26	·00860			
10. 14	57. 40	8. 3	·1021	20. 51	·00920			
10. 47	54. 50			22. 52	·00970			
11. 7	57. 25	9. 42	·1012	23. 55	·00920			
11. 57	58. 0	10. 14	·1024					
12. 17	56. 15	11. 17	·1018					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Sept. 15	
h m	° ′ ″
13. 9	21. 58. 30
13. 25	21. 57. 10
13. 32	22. 5. 0
15. 20	21. 53. 30
16. 10	55. 0
17. 3	53. 30
18. 6	57. 0
20. 55	21. 56. 30
23. 59	22. 2. 30
Sept. 16	
0. 17	22. 2. 45
0. 50	5. 0
1. 54	22. 4. 35
4. 28	21. 59. 25
7. 30	59. 15
11. 2	57. 30
13. 42	58. 30
16. 45	21. 59. 20
17. 11 :	22. 3. 0
18. 0	21. 59. 30
18. 19	22. 0. 25
19. 25	21. 56. 20
21. 30	22. 1. 0
22. 10	21. 59. 45
23. 59	22. 6. 30
Sept. 17	
0. 14	22. 6. 20
1. 28	8. 0
1. 52	5. 0
2. 46	22. 0. 0
6. 28	21. 58. 0
7. 32	22. 0. 0
9. 45	21. 55. 40
10. 25	21. 57. 0
10. 43	22. 0. 45
10. 52	21. 57. 0
11. 15	56. 35
11. 38	59. 30
12. 8	56. 30
13. 32	57. 15
14. 17	56. 30
15. 5	58. 30
16. 6	55. 35
16. 47	57. 30
21. 20	21. 59. 15
23. 46	22. 4. 30
23. 59	4. 30
Sept. 18	
0. 30	22. 2. 30
1. 12	4. 15
1. 50	2. 30
2. 40	3. 0
5. 12	4. 35
8. 23	22. 6. 45
9. 2	21. 55. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 15	
h m	
13. 37	·1028
14. 6	·1019
	***
14. 31	·1034
	***
15. 43	·1022
16. 53 :	·1033
20. 0	·1006
23. 59	·1004
Sept. 16	
0. 0	·1004
4. 15	·1010
	(†)
7. 35	·1016
12. 17	·1014
17. 0	·1018
19. 15	·1028
21. 7	·1016
23. 8	·0994
23. 59	·0992
Sept. 17	
0. 0	·0992
0. 45	·0994
1. 0	·1002
2. 10	·0986
2. 49	·1000
7. 23	·0996
9. 8	·1003
10. 37	·1003
11. 0	·1027
11. 30	·1010
12. 10	·1016
13. 0	·1006
18. 20	·1022
18. 45	·1020
19. 8	·1022
20. 45 :	·1026
22. 54	·1002
23. 59	·1004
Sept. 18	
0. 0	·1004
0. 33	·0993
0. 52	·1004
1. 44	·1004
	***
2. 33	·1010
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 16	
h m	
0. 45	·00910
3. 25	{ ·00770
	{ ·00830
10. 25	·00800
14. 53	·00890
17. 27	·01010
23. 12	·01280
Sept. 17	
0. 0	·01270
0. 45	·01240
4. 20	{ ·00830
	{ ·00870
8. 42	·00800
10. 38	·00910
12. 37	·01110
15. 2	·01540
15. 5	·01520
21. 35	·01470
23. 6	·01460
23. 59	·01470
Sept. 18	
1. 17	·01385
5. 50	·00690
6. 7	·00680
11. 37	·00720
13. 53	·00780
20. 56	·01100
23. 37	·01080

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 16		
h m	°	°
1. 40	70 ·0	71 ·0
3. 40	71 ·0	72 ·0
9. 40	72 ·5	73 ·0
22. 23	69 ·0	70 ·0
Sept. 17		
10. 2	72 ·0	73 ·0
21. 40	61 ·0	62 ·0
Sept. 18		
1. 40	65 ·0	67 ·0
3. 40	67 ·0	68 ·0
9. 40	67 ·0	68 ·0
21. 40	64 ·0	66 ·0

Göttingen Mean Solar Time.	Western Declination.
Sept. 18	
h m	° ′ ″
9. 25	21. 52. 30
10. 25	54. 0
	(†)
19. 0	59. 30
21. 6	55. 30
22. 5	21. 57. 30
23. 48	22. 2. 50
Sept. 19	
0. 0	22. 3. 30
1. 2	4. 40
2. 36	22. 4. 0
5. 31	21. 54. 0
8. 58	57. 0
9. 20	52. 0
9. 42	56. 0
10. 28	58. 30
13. 50	57. 25
14. 23	58. 30
20. 17 :	21. 56. 20
23. 58	22. 1. 30
Sept. 20	
0. 6	22. 2. 0
1. 16	22. 3. 25
5. 12	21. 58. 50
7. 17	21. 58. 25
10. 25	22. 0. 0
11. 52	21. 57. 25
12. 6	55. 0
13. 0	58. 0
13. 28	57. 30
13. 44	59. 0
14. 6	21. 58. 15
14. 34	22. 0. 25
15. 2	21. 56. 50
16. 11	55. 0
17. 52	57. 30
20. 0	55. 35
21. 37	21. 58. 30
23. 48	22. 3. 35
Sept. 21	
0. 10	22. 3. 0
0. 35	5. 35

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 18	
h m	
3. 40	·1004
	***
6. 0	·1003
	***
8. 16	·1020
	***
9. 15	·1011
9. 33	·1019
	***
10. 23	·1008
15. 45	·1030
	(†)
19. 5	·1033
21. 55	·1023
22. 47	·1027
23. 59	·1021
Sept. 19	
0. 0	·1021
2. 36	·1027
3. 35	·1022
5. 0	·1023
5. 13	·1017
7. 15	·1026
9. 15	·1021
9. 35	·1031
9. 55	·1026
12. 27	·1026
12. 43	·1035
13. 19	·1028
16. 0	·1026
19. 40	·1032
23. 0	·1017
23. 50	·1017
Sept. 20	
0. 0	·1017
1. 20	·1020
4. 30	·1014
7. 15	·1030
11. 37	·1028
12. 13	·1038
12. 44	·1040
12. 53	·1048
13. 49	·1024
15. 21 :	·1040
19. 23	·1030
23. 30	·1019
23. 57	·1022
Sept. 21	
0. 15	·1019
0. 37	·1030

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 19	
h m	
0. 0	·01080
2. 25	·00950
5. 34	{ ·00710
	{ ·00760
10. 52	·00720
12. 38	·00720
15. 25 :	·00750
18. 45	·01050
21. 26	·01350
23. 22	·01320
23. 55	·01290
Sept. 20	
0. 15	·01270
3. 26	·00870
5. 14	{ ·00720
	{ ·00750
7. 0	·00730
9. 8	·00820
11. 42	·01050
12. 32	·01100
12. 45	·01140
14. 50	·01460
14. 52	·01440
18. 10	·01420
23. 51	·01410
Sept. 21	
0. 30	·01500
2. 25	·01200

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 19		
h m	°	°
1. 40	66 ·0	68 ·0
3. 40	68 ·0	70 ·0
9. 55	69 ·0	71 ·0
21. 40	64 ·0	65 ·0
Sept. 20		
1. 40	68 ·0	69 ·0
3. 40	67 ·5	68 ·5
9. 40	67 ·0	69 ·0
21. 40	58 ·0	60 ·0
Sept. 21		
1. 40	61 ·0	62 ·5
3. 40	62 ·0	64 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Off H. F. Magnet	Readings of Thermometers. On V. F. Magnet
Sept. 21		Sept. 21		Sept. 21		Sept. 21		
h m	° ′ ″	h m		h m		h m	c	°
1. 0	22. 4. 0	0. 51	·1026	3. 32	·01040	9. 40	61 ·5	64 ·0
3. 32	4. 0	3. 5	·1027	6. 5	·00640	21. 40	55 ·0	57 ·2
4. 4	2. 30			6. 24	·00620			
4. 13	3. 30	5. 10	·1015	10. 46	·00690			
5. 8	1. 0	5. 34	·1022	11. 15	·00700			
5. 54	1. 0	6. 9	·1016	11. 39	·00740			
6. 25	22. 2. 10	9. 40	·1032	13. 54	·01000			
9. 0	21. 59. 0			16. 39	·01350			
9. 26	59. 0	10. 41	·1026	16. 40	·01330			
10. 4	53. 0	10. 57	·1046	21. 36	·01370			
10. 51	57. 0	11. 46	·1034	23. 32	·01380			
11. 23	49. 25	12. 29	·1045					
11. 48	58. 25	13. 14	·1034					
12. 52	54. 30	14. 36	·1042					
13. 52	56. 15	15. 14	·1030					
14. 9	58. 0	16. 25	·1049					
14. 31	56. 0							
15. 13	59. 35	18. 15	·1038					
16. 47	54. 0	19. 53	·1040					
17. 46	55. 30	23. 30	·1016					
18. 5	57. 45	23. 59	·1023					
20. 31	57. 0							
22. 2	21. 58. 25							
22. 56	22. 2. 35							
23. 59	3. 35							
Sept. 22		Sept. 22		Sept. 22		Sept. 22		
0. 4	22. 3. 30	0. 0	·1024	0. 0	·01390	1. 40	58 ·0	62 ·0
0. 31	3. 35	0. 28	·1036	0. 54	·01540	3. 40	59 ·5	62 ·0
1. 0	5. 0	1. 0	·1026	2. 41	·01110	9. 40	61 ·0	60 ·5
5. 13	22. 2. 30	3. 0	·1036	5. 21	·00590	21. 40	57 ·0	59 ·0
	(†)	3. 20	·1026	5. 28	·00610			
9. 40	21. 56. 46*	3. 26	·1030	8. 23	·00610			
	(†)	4. 36	·1020	10. 50	·00590			
21. 40	58. 8*	4. 55	·1026	11. 45	·00590			
	(†)	5. 16	·1021	13. 35	·00620			
			(†)	20. 30	·01000			
				22. 10	·01020			
				23. 59	·00980			
Sept. 23		Sept. 23		Sept 23		Sept. 23		
0. 13	22. 3. 25	0. 10	·1037	0. 25	·00960	1. 40	59 ·0	60 ·0
1. 30	22. 4. 0	2. 57	·1034	2. 5	·00850	3. 40	61 ·5	63 ·5
5. 25	21. 58. 30	3. 17	·1038	3. 45	·00620	9. 40	63 ·5	65 ·0
6. 40	22. 0. 15	3. 50	·1030		·00650	21. 59	59 ·0	61 ·0
8. 14	21. 58. 30	4. 55	·1036	6. 13	·00670			
14. 29	58. 25	5. 13	·1028	11. 46	·00630			
16. 55	57. 20	10. 8	·1042	12. 36	·00640			
17. 57	59. 30	16. 40	·1043	15. 43	·00710			
20. 17	21. 56. 20	17. 45	·1041	20. 42	·00880			
23. 59	22. 2. 25	19. 0	·1045	22. 44	·00880			
		22. 10	·1018					
		23. 59	·1020					
Sept. 24		Sept. 24		Sept. 24		Sept. 24		
0. 16	22. 3. 0	0. 0	·1020	0. 0	·00820	11. 26	67 ·0	68 ·0
2. 31	22. 2. 30			1. 36	·00660	21. 40	57 ·0	58 ·0
4. 25	21. 57. 30	1. 15	·1019		·00720			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Off H. F. Magnet	Readings of Thermometers. On V. F. Magnet
Sept. 24		Sept. 24		Sept. 24				
h m	° ′ ″	h m		h m		h m	°	
7. 13	21. 58. 30	2. 50	·1027	3. 35	·00770			
13. 43	58. 45			10. 36	·00730			
15. 28	58. 0	5. 3	·1018	11. 25	·00730			
15. 47	59. 30			13. 54	·00840			
16. 27	57. 35	9. 0	·1034	15. 53	·01000			
20. 36	21. 57. 0	16. 24	·1034	18. 19	·01480			
21. 56	22. 2. 0	18. 6	·1044	18. 21	·01460			
22. 15	4. 0	20. 35	·1036	22. 20	·01430			
23. 59	7. 40	21. 34	·1016	23. 51	·01440			
		23. 59	·1014					
Sept. 25		Sept. 25		Sept. 25		Sept. 25		
0. 17	22. 8. 35	0. 0	·1014	0. 0	·01430	1. 40	59 ·0	61 ·5
2. 20	9. 30	2. 17	·1024	1. 5	·01460	3. 40	60 ·0	61 ·0
3. 18	7. 0	3. 55	·1006	2. 20	·01380	9. 40	64 ·0	65 ·0
3. 53	4. 0	4. 29	·1018	3. 20	·01310	21. 40	55 ·0	57 ·0
6. 8	22. 0. 50	5. 0	·1014	7. 6	·00750			
6. 31	21. 58. 30	5. 29	·1017	7. 9	·00760			
8. 3	58. 0	6. 23	·1004	9. 10	·00720			
8. 29	55. 25	8. 5	·1027	9. 15	·00710			
8. 47	57. 40			9. 18	·00720			
9. 6	56. 25	9. 5	·1027	10. 9	·00670			
9. 16	45. 0	9. 22	·1038	11. 21	·00700			
9. 27	52. 30	9. 45	·1032	12. 45	·00790			
9. 59	47. 30			15. 4	·01020			
10. 10	50. 0	10. 10	·1034	17. 43	·01420			
11. 10	54. 30	10. 25	·1024	17. 45	·01390			
12. 35	57. 30	12. 0	·1036	20. 3	·01400			
13. 37	21. 56. 0	14. 20	·1038	22. 49	·01360			
14. 36	22. 0. 45	15. 6	·1046	23. 59	·01370			
15. 25	21. 54. 40	15. 47	·1038					
15. 55	56. 30	18. 0	·1046					
17. 38	57. 10	20. 25	·1042					
20. 7	56. 25	22. 15	·1028					
22. 10	21. 58. 0	23. 59	·1027					
23. 59	22. 2. 0							
Sept. 26		Sept. 26		Sept. 26		Sept. 26		
0. 17	22. 3. 20	0. 0	·1026	0. 30	·01360	1. 40	58 ·0	60 ·0
1. 50	4. 40	3. 50	·1034	2. 21	·01120	3. 40	63 ·0	67 ·0
2. 8	2. 50	4. 10	·1028	2. 35	·00820	9. 40	64 ·0	67 ·5
3. 23	22. 0. 0	4. 27	·1038	2. 58	·00710	21. 40	56 ·0	58 ·0
5. 25	21. 59. 30	4. 53	·1028	4. 2	·00730			
8. 8	22. 1. 0	5. 18	·1038	7. 40	·00750			
8. 43	21. 58. 0	5. 40	·1034	7. 43	·00810			
9. 30	21. 56. 35	6. 6	·1036	8. 34	·00730			
9. 59	22. 0. 0	6. 14	·1031	11. 35	·00750			
10. 43	21. 56. 20			12. 54	·00820			
11. 8	57. 25	6. 50	·1042	13. 3	·00860			
12. 8	48. 0	7. 37	·1030	13. 20	·00870			
12. 55	57. 50	8. 30	·1036	13. 30	·00820			
13. 15	56. 30	9. 21	·1021	13. 35	·00790			
13. 25	58. 35			13. 41	·00730			
13. 36	57. 35	10. 46	·1044	13. 54	·00690			
13. 45	21. 54. 20	10. 55	·1034	14. 24	·00840			
14. 25	22. 21. 0	11. 14	·1041	14. 31	·00860			
14. 55	21. 51. 0	11. 27	·1040	16. 26	·01100			
15. 2	53. 0	11. 48	·1052					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.26		Sept.26		Sept.26		h m		
h m	° ′ ″	h m		h m				
15. 14	21. [illegible]. 10	12. 10	·1038	18. 24	·01410			
15. 17	30. 0		***	18. 35	·01330			
15. 26	45. 30	13. 53	·1042	18. 39	·01420			
15. 37	44. 20	14. 22	·1034	21. 37	·01380			
16. 13	54. 30	14. 40	·1021	23. 57	·01410			
16. 35	56. 30	14. 46	·1016					
18. 22	57. 0	15. 1	·1045					
19. 25	58. 50	15. 8	·1036					
19. 51	21. 57. 30	15. 17	·1041					
20. 1	22. 3. 0	15. 36	·1021					
20. 22	21. 59. 40	15. 41	·1028					
20. 42	22. 1. 0	16. 0	·1020					
21. 32	21. 58. 30		***					
21. 42	22. 1. 30	19. 0	·1043					
22. 0	0. 25		***					
22. 37	3. 0	20. 20	·1022					
22. 42	6. 40	21. 15	·1027					
23. 6	4. 20		***					
23. 27	7. 30	22. 32	·1018					
23. 59	7. 0	22. 55	·1026					
		23. 13	·1008					
		23. 30	·1026					
		23. 50	·1007					
		23. 59	·1008					
Sept.27		Sept.27		Sept.27		Sept.27		
0. 16	22. 6. 30	0. 0	·1008	0. 45	·01370	1. 40	61 ·0	63 ·0
0. 40	6. 0	0. 40	·1014	0. 59	·01380	3. 40	65 ·0	66 ·0
0. 53	11. 0	0. 55	·1033	1. 9	·01320	9. 40	65 ·5	67 ·0
1. 15	5. 50	1. 34	·1010	1. 18	·01330	21. 40	56 ·0	57 ·0
1. 22	8. 30	2. 2	·1023	1. 50	·01230			
1. 42	4. 25	3. 14	·1012	3. 37	·00800			
2. 1	3. 15		***	7. 24	·00810			
3. 34	22. 2. 20	3. 45	·1025	7. 30	·00820			
4. 22	21. 57. 30	4. 8	·1007	7. 50	·00810			
5. 32	58. 50	5. 40	·1024	9. 39	·00760			
7. 22	59. 0		***	11. 47	·00770			
7. 50	58. 0	8. 10	·1021	13. 9	·00850			
8. 13	55. 15	8. 40	·1030	15. 36	·01120			
8. 38	57. 45	8. 55	·1022	17. 49	·01450			
8. 47	56. 35	10. 5	·1028	17. 54	·01440			
9. 36	58. 0	10. 30	·1044		***			
9. 47	59. 45	10. 46	·1032	21. 42	·01430			
10. 23	21. 57. 30	10. 55	·1040	23. 36	·01440			
11. 3	22. 3. 15	11. 14	·1034	23. 51	·01430			
11. 15	0. 50		***					
11. 42	22. 0. 30	12. 23	·1043					
12. 10	21. 57. 30	13. 41	·1031					
13. 0	55. 50	13. 51	·1036					
13. 13	57. 30	14. 14	·1030					
13. 36	21. 57. 0	15. 0	·1040					
14. 17	22. 1. 20	16. 9	·1037					
16. 30	21. 56. 10	17. 45	·1040					
	***	19. 32	·1044					
21. 40	22. 0. 35	20. 32	·1031					
22. 6	21. 59. 30	21. 15	·1030					
23. 3	22. 1. 30	23. 46	·1031					
23. 44	5. 0	23. 59	·1024					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.27						h m		
h m	° ′ ″			h m				
23. 59	22. 2. 35							
Sept.28		Sept.28		Sept.28		Sept.28		
0. 16	22. 5. 30	0. 4	·1020	0. 45	·01360	1. 40	61 ·0	62 ·0
		0. 16	·1020	1. 34	·01230	3. 40	66 ·0	67 ·0
0. 32	3. 15	0. 54	·1020	2. 36	·01020	9. 40	65 ·0	67 ·0
1. 20	3. 35	1. 33	·1014	3. 24	·00780	21. 40	53 ·0	55 ·0
1. 58	2. 30	2. 40	·1025	3. 25	·00810			
2. 18	4. 0		***	3. 45	·00830			
3. 45	22. 2. 0	4. 54	·1006	5. 54	·00830			
4. 17	21. 59. 25	6. 45	·1020	5. 57	·00880			
4. 29	22. 0. 30	10. 10	·1023	6. 16	·00830			
6. 10	21. 57. 25	10. 44	·1020	6. 18	·00840			
9. 7	58. 0	11. 50	·1034	7. 51	·00790			
9. 22	57. 0		***	9. 19	·00780			
10. 56	57. 0	15. 18	·1028	11. 5	·00[illegible]			
11. 10	58. 50	17. 53	·1042	11. 45	·00960			
11. 33	56. 0	23. 54	·1032	12. 46	·01030			
11. 52	59. 30			15. 8	·01450			
12. 1	21. 59. 0			15. 9	·01430			
12. 15	22. 0. 40			23. 54	·01370			
13. 57	21. 55. 0							
15. 4	55. 35							
15. 24	57. 45							
16. 38	56. 20							
18. 1	57. 30							
21. 29	21. 56. 25							
23. 51	22. 2. 30							
Sept.29		Sept.29		Sept.29		Sept.29		
0. 8	22. 2. 25	0. 0	·1033	0. 45	·01340	1. 40	55 ·0	57 ·0
2. 2	22. 3. 10		***	2. 0	·01290	3. 40	62 ·0	63 ·0
4. 51	21. 58. 30	3. 36	·1025	2. 58	·01170	9. 40	65 ·0	67 ·5
6. 32	58. 15	8. 16	·1034	3. 46	·00920	21. 40	56 ·0	57 ·0
8. 41	56. 30	9. 20	·1027	4. 24	·00730			
10. 46	57. 30	12. 40	·1038	4. 26	·00750			
12. 57	57. 0	13. 23	·1038	7. 10	·00780			
12. 26	58. 0	13. 55	·1046	12. 21	·00720			
15. 21	55. 0	14. 38	·1038	13. 0	·00740			
16. 15	58. 0	16. 4	·1037	14. 55	·00840			
19. 7	56. 50	19. 21	·1046	16. 50	·01110			
20. 41	56. 0	21. 30	·1041	19. 1	·01460			
21. 42	21. 57. 15	22. 9	·1024	19. 5	·01430			
22. 26	22. 1. 25	22. 21	·1027	22. 30	·01390			
23. 47	5. 45	23. 15	·1022	23. 59	·01410			
23. 59	4. 50	23. 59	·1023					
Sept.30		Sept.30		Sept.30		Sept.30		
1. 40	22. 0. 21*	1. 40	·1033	1. 0	·01420	1. 40	59 ·0	60 ·0
3. 40	22. 0. 20*	3. 40	·1027*	2. 39	·01370	3. 40	63 ·0	65 ·0
9. 40	21. 55. 51*	9. 40	·1036*	3. 5	·01310	9. 40	66 ·0	68 ·0
22. 42	58. 5*	22. 42	·1035*	4. 50	·00780	22. 42	56 ·0	57 ·0
				4. 51	·00810			
				7. 9	·00820			
				10. 16	·00750			
				11. 54	·00760			
				13. 15	·00830			
				15. 22	·01040			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

September 30 to October 6. The Declination and Horizontal Force time-piece was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		Sept. 30 h m		h m	°	°
				18. 17	·01460			
				18. 20	·01440			
				21. 0	·01430			
				22. 54	·01420			
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
11. 25	21. 56. 10*	11. 25	·1041*	1. 45	·01410	11. 25	63 ·5	64 ·5
21. 40	57. 46*	21. 40	·1050*	3. 40	·01430	21. 40	58 ·0	59 ·0
				5. 36	·01440			
				7. 15	·01320			
				10. 1	·01010			
				11. 30	·00900			
				13. 21	·00830			
				14. 24	·00820			
				16. 25	·00850			
				18. 8	·00990			
				19. 45	·01180			
				21. 36	·01430 / ·01380			
				23. 59	·01390			
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
1. 40	22. 1. 44*	1. 40	·1039*	0. 15	·01270	1. 40	58 ·0	59 ·5
3. 40	21. 59. 44*	3. 40	·1038*	1. 10	·01290	3. 40	64 ·5	66 ·5
9. 40	58. 32*	9. 40	·1037*			9. 40	65 ·5	66 ·0
21. 40	56. 29*	21. 40	·1035*	2. 12	·01140	21. 40	58 ·0	59 ·0
				3. 36	·00790			
				6. 43	·00820			
				7. 35	·00790			
				9. 53	·00730			
				11. 39	·00790			
				12. 30	·00830			
				14. 30	·00960			
				18. 22	·01450			
				18. 25	·01430			
				23. 59	·01420			
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
1. 40	22. 3. 8*	1. 40	·1039*	0. 30	·01380	1. 40	61 ·5	62 ·5
3. 40	21. 49. 44*	3. 40	·1044*	1. 55	·01190	3. 40	64 ·5	66 ·5
9. 40	54. 44*	9. 40	·1043*	3. 49	·00730 / ·01760	9. 40	63 ·5	65 ·5
21. 40	54. 48*	21. 40	·1049*	6. 0	·00740 / ·00790	21. 40	53 ·0	55 ·0
				6. 44	·00750			
				8. 24	·00720			
				10. 0	·00770			
				11. 45	·00930			
				13. 6	·01090			
				15. 5	·01410			
				15. 7	·01390			
				21. 45	·01350			
				23. 59	·01400			
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
1. 40	22. 1. 2*	1. 40	·1039*	0. 39	·01380	1. 40	55 ·0	56 ·0
3. 40	21. 59. 12*	3. 40	·1045*	2. 5	·01290	3. 40	58 ·0	60 ·3
9. 40	50. 46*	9. 40	·1043*	3. 3	·01170	9. 40	62 ·0	63 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 4 h m	° ′ ″	Oct. 4 h m		Oct. 4 h m		Oct. 4 h m	°	°
21. 40	21. 55. 52	21. 40	·1038*	3. 36	·01050	21. 40	62 ·0	63 ·0
				5. 2	·00670			
				5. 5	·00690			
				7. 2	·00710			
				9. 49	·00660			
				12. 16	·00660			
				17. 50	·00670			
				21. 17	·00720			
				23. 59	·00670			
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
1. 40	22. 4. 20*	1. 40	·1034*	1. 0	·00700	1. 40	64 ·0	64 ·5
3. 40	22. 1. 26*	3. 40	·1041*	3. 38	·00820 / ·00850	3. 40	68 ·0	68 ·5
9. 40	21. 57. 11*	9. 40	·1039*			9. 40	68 ·0	68 ·5
21. 40	21. 55. 31*	21. 40	·1044*	4. 37	·00820	21. 40	62 ·5	63 ·0
				8. 9	·00790			
				10. 6	·00820			
				12. 27	·00910			
				13. 45	·01010			
				19. 9	·01540			
				19. 15	·01520			
				22. 9	·01510 / ·01450			
				23. 59	·01490			
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
1. 40	22. 2. 11	1. 40	·1039*	0. 32	·01490	1. 40	62 ·2	63 ·0
3. 40	22. 2. 15*	3. 40	·1047*	1. 30	·01510	3. 40	63 ·0	65 ·0
9. 40	21. 35. 24*	9. 40	·1051*	6. 16	·01460	9. 40	61 ·0	63 ·5
21. 40	21. 55. 34*	21. 40	·1054*	8. 35	·01510 / ·01470	21. 40	57 ·0	58 ·0
				9. 50	·01490 / ·01490			
				12. 5	·01250			
				12. 30	·01260			
				13. 10	·01270			
				14. 5	·01320			
				16. 47	·01380			
				23. 59	·01410			
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
2. 1	22. 2. 45	1. 48	·1046	1. 15	·01390	1. 40	59 ·0	61 ·0
3. 47	22. 1. 50			2. 26	·01350	3. 40	59 ·0	60 ·0
8. 8	21. 57. 30	5. 15	·1051	3. 40	·01240	9. 40	61 ·0	62 ·0
8. 27	55. 35			6. 4	·00980	22. 37	57 ·0	59 ·0
9. 8	54. 0	8. 7	·1057	8. 7	·00840			
10. 3	54. 35	9. 0	·1048	10. 30	·00810			
10. 35	42. 45	10. 16	·1050	12. 45	·00850			
11. 21	53. 0	10. 41	·1065	13. 6	·00850			
12. 50	56. 0	11. 16	·1048	13. 24	·00830			
13. 29	51. 0	12. 50	·1056	16. 55	·01060			
14. 20	53. 50	13. 34	·1084	17. 35	·01050			
14. 32	53. 0	14. 0	·1058	21. 5	·01360 / ·01310			
15. 0	55. 30	15. 45	·1058					
15. 15	54. 25	16. 15	·1065	23. 5	·01380			
16. 31	21. 58. 30	16. 57	·1057					
16. 53	22. 12. 30	17. 22	·1077					
17. 4	13. 0	18. 0	·1078					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 7		Oct. 7						
h m	° ′ ″	h m		h m		h m	°	°
17. 32	22. 6. 40	19. 8	·1065					
18. 4	5. 10	20. 5	·1068					
18. 53	9. 10	20. 34	·1054					
20. 44	4. 30	23. 7	·1020					
21. 8	5. 35	23. 59	·1030					
22. 1	4. 30							
22. 47	6. 30							
23. 46	7. 0							
23. 59	9. 0							
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 15	22. 12. 0	0. 0	·1030	0. 0	·01410	9. 55	62 ·5	63 ·0
0. 55	11. 30		***	1. 34:	·01400	21. 40	60 ·0	61 ·0
1. 37	7. 25	1. 15	·1028	3. 5	·01230			
1. 47	8. 0		***		***			
2. 6	6. 0	2. 35	·1041	3. 59	·01130			
2. 34	8. 0		***	4. 31	·01060			
3. 5	6. 0	3. 30	·1025	4. 39	·01070			
3. 20	8. 25		***	4. 44	·01110			
3. 26	7. 0	3. 47	·1030	4. 48	·01090			
3. 38	8. 30	3. 58	·1047	4. 51	·01100			
3. 45	6. 15	4. 15	·1034		***			
3. 55	10. 30	4. 36	·1002	5. 37	·00930			
4. 14	22. 8. 40	4. 46	·1020	5. 43	·00950			
4. 30	21. 59. 0	5. 0	·1015	5. 45	·00920			
4. 34	22. 4. 35		***	5. 50	·00970			
4. 49	21. 56. 0	5. 30	·1022	5. 54	·00920			
4. 55	58. 50	5. 48	·1000	6. 30	·00830			
5. 6	54. 0	5. 54	·1030	6. 54	·00820			
5. 49	56. 0	6. 0	·1014	7. 50	·00820			
6. 0	40. 0	6. 6	·1029	8. 2	·00840			
6. 6	41. 0	6. 42	·0985	8. 21	·00830			
6. 12	36. 25	7. 5	·0994	8. 28	·00800			
6. 20	45. 0	7. 15	·0982	8. 45	·00780			
6. 32	45. 35	7. 21	·0992		***			
6. 43	53. 0		***	9. 54	·00700			
6. 53	53. 0	7. 49	·0984	10. 46	·00650			
7. 1	52. 0	8. 14	·0999	11. 15	·00630			
7. 6	51. 50	8. 33	·0970	11. 31	·00600			
7. 15	55. 0	9. 12	·0990	11. 55	·00610			
7. 25	50. 15	9. 30	·0982	12. 9	·00620			
7. 45	56. 0	9. 47	·0987	12. 18	·00660			
8. 10	48. 35	9. 59	·0982	12. 45	·00580			
8. 26	56. 25	10. 20	·0985	13. 5	·00610			
8. 55	44. 15	11. 5	·0974	13. 47	·00650			
9. 15	47. 30	11. 25	·0997	14. 10	·00640			
9. 34	42. 25	11. 36	·0976	14. 26	·00650			
9. 46	44. 15	11. 56	·0981	14. 55	·00620			
9. 58	42. 0	12. 14	·1006	16. 13	·00710			
10. 32	46. 0	12. 38	·1000	18. 33	·00830			
10. 44	44. 35	13. 0	·1015	22. 51	·00970			
10. 58	55. 10	13. 17	·1002					
11. 20	37. 0	13. 45	·1014					
11. 24	37. 0	14. 25	·1004					
11. 34	31. 30	15. 9	·1040					
11. 47	32. 0	16. 40	·1028					
12. 24	52. 0	17. 40	·1040					
12. 51	41. 50	21. 0	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 8		Oct. 8						
h m	° ′ ″	h m		h m		h m	°	°
13. 20	21. 39. 25	23. 59	·1034					
13. 56	48. 30							
14. 12	21. 49. 0							
14. 41	22. 6. 35							
15. 1	21. 55. 30							
15. 32	50. 25							
16. 17	56. 30							
16. 38	56. 0							
17. 3	58. 25							
19. 51	57. 25							
20. 52	22. 1. 25							
21. 26	21. 59. 0							
23. 23	22. 0. 0							
23. 59	3. 10							
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
0. 8	22. 2. 35	0. 0	·1034	1. 15	·00920	1. 40	63 ·0	64 ·6
0. 43	5. 0	5. 21	·1024	2. 15	·00890	3. 40	65 ·0	66 ·0
1. 35	2. 0		***	3. 5	·00790	9. 40	65 ·0	66 ·0
3. 47	22. 0. 35	7. 45	·1030	3. 21	·00820	21. 40	58 ·5	59 ·0
5. 18	21. 57. 35	8. 15	·1024	4. 22	·00870			
6. 11	59. 10	12. 0	·1038	5. 38	·00880			
6. 49	57. 25	18. 35	·1046	7. 45	·00840			
7. 8	59. 0	19. 10	·1041	12. 46	·00790			
8. 36	55. 0	20. 0	·1048	14. 10	·00810			
11. 31	57. 10	23. 59	·1034	16. 51	·00920			
14. 40	58. 0			18. 9	·01010			
14. 45	59. 30			20. 20	·01230			
16. 42	57. 35			22. 15	·01480			
17. 17	56. 30			22. 36	·01520			
18. 52	58. 15			22. 40	·01510			
20. 44	54. 30			23. 59	·01520			
22. 12	55. 10							
23. 45	58. 30							
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
0. 6	21. 59. 25	0. 0	·1033	0. 30	·01530	1. 40	62 ·0	62 ·5
1. 34	22. 0. 50	2. 44	·1021	1. 36	·01540	3. 40	65 ·5	67 ·0
4. 43	22. 0. 0	3. 32	·1030	2. 47	·01440	9. 40	66 ·0	68 ·0
5. 57	21. 57. 50		***	4. 45	·01150	21. 40	61 ·0	62 ·0
7. 45	56. 40	7. 35	·1032	6. 15	·00940			
7. 58	55. 0	7. 50	·1026	7. 39	·00820			
9. 50	56. 30	10. 36:	·1048	10. 3	·00760			
10. 28:	51. 20	10. 54	·1041	11. 51	·00810			
11. 6	55. 30	11. 43	·1048	13. 55	·00900			
13. 32	58. 25	18. 5	·1054	18. 0	·01090			
17. 47	57. 20	20. 10	·1051	19. 9	·01120			
21. 25	55. 0	23. 44	·1030	21. 54	·01140			
23. 59	58. 0	23. 59	·1032	23. 59	·01210			
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
0. 16	21. 59. 30	0. 0	·1033	0. 30	·01210	1. 40	61 ·0	62 ·0
2. 0	22. 2. 20	2. 16	·1026	1. 24	·01230	3. 40	63 ·0	63 ·5
4. 55	21. 59. 25		***	2. 41	·01250	9. 40	61 ·0	61 ·0
8. 17	56. 30	11. 5	·1054	5. 31	·01160	21. 40	50 ·0	51 ·0
8. 50	57. 20	19. 45	·1066	8. 3	·01190			
10. 35	57. 0	22. 45	·1060	9. 35	·01280			
10. 58	55. 10	23. 59	·1043	11. 30	·01480			
					·01450			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (+) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 11				Oct. 11				
h m	° ′ ″	h m		h m		h m	°	°
13. 1	21. 57. 50			12. 6	·01450			
18. 8	58. 40			12. 45	·01440			
21. 50	55. 0			21. 40	·01340			
22. 45	21. 58. 35			22. 10	{·01350 ·01270			
23. 47	22. 0. 30			23. 40	·01380			
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 0	22. 3. 40	0. 0	·1042	0. 0	·01380	1. 40	55 ·0 56 ·0	
0. 28	5. 20		***	1. 15	·01350	3. 40	58 ·5 60 ·0	
1. 15	2. 0	0. 46	·1033	2. 10	·01250	9. 40	60 ·5 62 ·5	
2. 2	1. 30	3. 10	·1040	3. 24	·00970	21. 58	48 ·5 54 ·0	
2. 26	3. 25	3. 26	·1032		***			
2. 47	2. 30	3. 46	·1048	4. 25	·00740			
3. 10	3. 30		***	4. 35	·00710			
3. 23	1. 30	4. 45	·1022	4. 38	·00730			
3. 46	4. 30	4. 53	·1030	4. 54	·00750			
3. 55	3. 15	5. 5	·1016	5. 5	·00740			
4. 15	6. 10	5. 15	·1032	5. 7	·00760			
4. 45	4. 30	5. 28	·1016	5. 17	·00790			
4. 56	22. 6. 30	5. 42	·1034		***			
5. 5	21. 57. 10	6. 10:	·1018	6. 40	·00780			
5. 15	58. 50		***	6. 58	·00770			
5. 20	55. 30	6. 46	·1024	7. 18	·00790			
5. 29	21. 54. 30	7. 0	·1015	7. 59	·00760			
5. 47	22. 3. 40	7. 13	·1018	8. 57	·00710			
5. 52	5. 20	7. 21	·1012	10. 22	·00670			
6. 2	4. 30	7. 30	·1018	11. 36	·00680			
6. 8	3. 35	7. 48	·1017	12. 15	·00720			
6. 13	4. 15	8. 4	·1001	13. 32	·00840			
6. 18	5. 0	8. 15	·1021	13. 44	·00830			
6. 27	22. 4. 45	9. 30	·1044	15. 22	·01030			
7. 7	21. 56. 30	10. 5	·1038	16. 8	·01120			
7. 17	59. 0	10. 37	·1045	17. 9	{·01350 ·01310			
7. 25	55. 25	10. 50	·1032					
7. 34	58. 30	11. 14	·1056	19. 18	·01310			
7. 45	56. 0	11. 35	·1042	19. 35	·01330			
7. 56	56. 30	12. 45	·1040	22. 15	{·01380 ·01330			
8. 8	51. 30	13. 24	·1044					
8. 22	54. 0	13. 40	·1062	22. 45	·01370			
8. 52	53. 50	14. 45	·1053					
9. 12	55. 45	15. 30	·1024					
9. 32	55. 40	16. 10	·1058					
9. 51	51. 50	16. 39	·1052					
10. 9	53. 10	17. 27	·1062					
10. 33	40. 15	19. 6	·1070					
10. 46	42. 30	22. 8	·1056					
11. 5	36. 30	23. 59	·1057					
11. 22	44. 45							
11. 35	45. 0							
12. 13	50. 0							
13. 10	54. 0							
13. 30	57. 20							
14. 50:	21. 44. 0							
15. 33	22. 5. 0							
15. 47	22. 6. 0							
16. 36	21. 55. 20							
17. 43	21. 56. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 12								
h m	° ′ ″	h m		h m		h m	°	°
19. 8	22. 2. 30							
20. 25	21. 59. 30							
20. 52	22. 1. 0							
21. 43	21. 56. 45							
22. 43	55. 45							
23. 59	58. 30							
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
0. 7	21. 59. 15	0. 0	·1036	0. 0	·01410	1. 40	51 ·0 52 ·5	
1. 6	22. 0. 45	2. 30:	·1048	0. 25	·01420	3. 40	52 ·5 54 ·0	
5. 53	21. 57. 15	7. 45	·1062	0. 28	·01400	9. 40	53 ·0 55 ·0	
8. 2	58. 0	13. 19	·1060	0. 43	·01340	21. 40	51 ·0 53 ·0	
12. 34	57. 30	19. 30	·1073	2. 40:	·01290			
12. 50	58. 30	23. 0	·1080	4. 21	·01060			
13. 53	57. 0	23. 59	·1048	7. 3:	·00760			
14. 35	58. 50			9. 13	·00690			
20. 46	54. 35			10. 31	·00720			
22. 32	21. 56. 30			13. 0	·00850			
23. 56	22. 0. 35			18. 24	·01210			
				19. 30	·01250			
				22. 35	·01210			
				23. 59	·01110			
Oct. 14.		Oct. 14		Oct. 14		Oct. 14		
0. 32	22. 2. 0	0. 0	·1048	2. 0	·00880	1. 40	54 ·5 56 ·5	
2. 37	22. 0. 35	1. 10	·1047	3. 11	·00710	3. 40	56 ·0 57 ·7	
4. 43	21. 58. 20	3. 15	·1050	3. 46	·00690	9. 40	58 ·0 59 ·0	
6. 55	58. 35	11. 37	·1059	5. 54	·00720	23. 24	54 ·5 57 ·5	
11. 50	56. 30	13. 0	·1054	7. 51	·00710			
13. 20	57. 30	14. 0	·1060	13. 19	·00690			
13. 28	59. 35	15. 18	·1054	14. 5	·00670			
13. 51	54. 50	19. 30	·1062	18. 37	·00690			
14. 24	57. 25	23. 59	·1050	22. 9	·00740			
14. 56	57. 35			23. 59	·00750			
15. 13	59. 40							
15. 58	58. 10							
16. 18	54. 45							
17. 2	58. 0							
21. 28:	56. 0							
23. 2	21. 59. 10							
23. 59	22. 3. 0							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 7	22. 2. 0	0. 0	·1051	1. 45	·00710	9. 55	58 ·0 58 ·0	
0. 55	4. 10	0. 16	·1044	4. 36	·00730	21. 40	54 ·0 55 ·0	
2. 17	3. 0	0. 45	·1051	6. 13	·00720			
2. 30	1. 15		***	7. 46	·00720			
3. 28	22. 0. 15	2. 53	·1052	12. 15	·00810			
4. 18	21. 58. 5	3. 40	·1047	12. 45	·00790			
5. 46	58. 0	7. 0	·1059		(†)			
6. 6	59. 0	8. 40	·1056	21. 45	·01370			
7. 13	56. 25		***	22. 20	·01390			
7. 43	57. 15	9. 31	·1064	22. 51	·01430			
12. 35	57. 35		***	23. 37	·01490			
13. 2	59. 0	13. 15	·1056	23. 59	·01490			
14. 8	57. 45		(†)					
	(†)	21. 55	·1060					
21. 45	56. 30	23. 15:	·1050					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Oct. 15	
h m	° ′ ″
22. 47	21. 59. 40
23. 59	22. 0. 35
Oct. 16	
0. 37	22. 2. 10
1. 16	22. 1. 50
4. 31	21. 57. 30
5. 34	58. 0
6. 37	55. 45
8. 35	58. 30
12. 37	21. 58. 30
13. 30	22. 0. 0
14. 47	21. 58. 30
19. 32	58. 15
20. 41	21. 57. 25
22. 23	22. 0. 45
22. 43	0. 30
23. 59	4. 15
Oct. 17	
0. 20	22. 3. 10
0. 50	22. 4. 30
5. 12	21. 57. 30
7. 55	58. 30
10. 4	57. 15
10. 28	54. 35
10. 56	58. 0
11. 17	57. 0
11. 43	58. 35
12. 1	58. 0
12. 42	59. 0
14. 2	57. 0
14. 47	58. 10
15. 40	21. 57. 30
15. 58	22. 0. 0
17. 29	21. 57. 0
19. 38	58. 30
20. 23	56. 30
21. 51	21. 57. 35
23. 22	22. 2. 0
23. 38	5. 0
23. 54	3. 0
Oct. 18	
0. 0	22. 3. 0
1. 30	3. 40
2. 22	2. 0
2. 42	3. 35
3. 22	3. 0
3. 42	5. 45
5. 10	22. 3. 30
6. 5	21. 59. 30
9. 23	59. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 15	
h m	
23. 59	·1051
Oct. 16	
0. 0	·1052
0. 20	·1054
4. 30:	·1038
16. 8	·1059
20. 30	·1067
23. 15	·1051
23. 59	·1052
Oct. 17	
0. 0	·1052
2. 50	·1056
5. 56	·1050
10. 18	·1059
10. 40	·1077
11. 2	·1077
11. 34	·1064
13. 30	·1068
	***
15. 0	·1064
18. 32	·1076
19. 12	·1064
20. 30:	·1068
22. 20	·1058
22. 43	·1056
	***
23. 32	·1055
23. 47	·1061
23. 59	·1056
Oct. 18	
0. 0	·1057
1. 6	·1056
3. 11	·1056
3. 31	·1062
3. 49	·1056
	***
4. 37	·1072
5. 18	·1050
6. 25	·1065

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Oct. 16	
1. 0	·01460
1. 52	·01400
2. 47	·01270
4. 4	·01030
5. 7	·00780 / ·00820
6. 30	·00800
8. 46	·00760
12. 20	·00760
12. 45	·00770
14. 20	·00850
16. 22	·01040
19. 35	·01490
19. 37	·01470
20. 12	·01470
20. 16	·01460
20. 20	·01470
22. 54	·01460
23. 59	·01480
Oct. 17	
1. 15	·01460
2. 10	·01390
2. 36	·01330
5. 40	·00730
5. 42	·00750
6. 54	·00760
9. 24	·00710
10. 45	·00730
12. 54	·00800
13. 36	·00840
19. 54	·01250
23. 1	·01360
23. 59	·01360
Oct. 18	
1. 30	·01300
2. 43	·01230
3. 54	·01140
5. 30	·00950
8. 31:	·00840
11. 26	·00970
12. 53	·01070
13. 45	·01130
15. 33	·01250

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Oct. 15		
22. 47		
23. 59		
Oct. 16		
1. 40	55 ·8	57 ·5
3. 40	58 ·0	59 ·0
9. 40	59 ·0	60 ·0
21. 40	50 ·5	54 ·5
Oct. 17		
1. 40	53 ·5	55 ·0
3. 40	55 ·5	58 ·5
9. 40	55 ·0	57 ·0
21. 40	53 ·0	54 ·0
Oct. 18		
1. 40	54 ·0	55 ·0
3. 40	55 ·0	56 ·0
9. 40	55 ·0	56 ·5
21. 40	49 ·0	49 ·5

Göttingen Mean Solar Time.	Western Declination.
Oct. 18	
h m	° ′ ″
9. 39	21. 58. 0
12. 37	59. 0
14. 23	21. 55. 40
15. 25	22. 1. 30
15. 46	22. 1. 20
16. 36	21. 53. 0
16. 54	52. 0
17. 57	58. 0
22. 5	21. 56. 25
23. 52	22. 1. 0
Oct. 19	
0. 0	22. 0. 30
1. 2	4. 0
2. 25	1. 0
3. 26	22. 1. 0
4. 43	21. 38. 30
7. 23	53. 50
8. 23	57. 0
8. 44	55. 0
8. 56	56. 10
9. 12	54. 25
9. 58	57. 0
10. 38	56. 0
11. 36	57. 40
11. 50	56. 25
12. 23	58. 0
13. 45	57. 0
14. 37	59. 30
15. 0	57. 50
18. 16	58. 25
20. 55	21. 55. 30
23. 59	22. 2. 15
Oct. 20	
0. 7	22. 2. 25
0. 55	22. 2. 40
5. 20	21. 56. 35
7. 38	58. 15
12. 10	56. 30
13. 47	57. 50
14. 2	59. 30
14. 49	58. 0
19. 15	57. 40
22. 0	21. 55. 35
23. 59	22. 0. 20
Oct. 21	
0. 15	22. 0. 30
1. 2	2. 0
2. 38	22. 1. 20
4. 35	21. 58. 0
6. 2	59. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 18	
h m	
7. 23	·1065
8. 0	·1057
13. 30	·1061
13. 53	·1064
15. 6	·1058
	***
16. 17	·1038
16. 55	·1040
19. 45	·1060
21. 0	·1064
23. 59	·1046
Oct. 19	
0. 0	·1046
1. 10	·1053
1. 45	·1044
	***
6. 25	·1051
6. 53	·1047
8. 21	·1048
8. 45	·1059
	***
10. 23	·1057
18. 30	·1068
23. 59	·1048
Oct. 20	
0. 0	·1047
4. 15	·1048
4. 40	·1042
8. 27	·1057
10. 0	·1056
19. 15:	·1069
23. 59	·1050
Oct. 21	
0. 0	·1049
4. 35	·1050
5. 0	·1056
6. 20:	·1042
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 18	
h m	
15. 50	·01260
16. 10	·01290
17. 56	·01430
18. 2	·01420
20. 33	·01440
23. 2	·01420
23. 59	·01430
Oct. 19	
0. 2	·01450
1. 36:	·01430
2. 41	·01330
3. 5	·01270
5. 9	·00910
6. 59	·00670
7. 1	·00690
9. 24	·00650
11. 45	·00680
12. 30	·00700
15. 23	·00830
18. 9	·00900
20. 19	·00880
23. 4	·00740
23. 45	·00680
Oct. 20	
0. 44	·00640 / ·00690
4. 21	·00830
6. 17	·00810
7. 7	·00810
9. 23	·00760
11. 43	·00820
13. 0	·00890
15. 45	·01090
20. 24	·01500
20. 28	·01490
20. 49	·01480
20. 54	·01470
20. 57	·01480
23. 59	·01460
Oct. 21	
0. 0	·01470
1. 59:	·01430
3. 4	·01240
5. 31	·00790 / ·00820

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Oct. 19		
1. 40	51 ·5	52 ·0
3. 40	54 ·0	54 ·5
9. 40	54 ·0	54 ·5
21. 40	52 ·5	54 ·5
Oct. 20		
1. 40	56 ·8	57 ·5
3. 40	58 ·0	59 ·0
9. 40	57 ·0	58 ·0
21. 40	52 ·5	55 ·0
Oct. 21		
1. 40	54 ·8	55 ·0
3. 40	57 ·5	58 ·0
9. 40	58 ·0	59 ·0
22. 41	56 ·7	57 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 21		Oct. 21		Oct. 21				
h m	° ′ ″	h m		h m		h m	°	
6. 38	21. 55. 0	8. 0	·1058	7. 13	·00820			
7. 18	58. 30	8. 32	·1050	8. 40	·00790			
7. 35	57. 15	10. 3	·1056	10. 36	·00770			
7. 55	58. 0	10. 20	·1062	10. 51	·00760			
10. 10	55. 35	11. 7	·1054	11. 33	·00770			
10. 47	58. 20	19. 6	·1066	12. 30	·00800			
11. 13	54. 0	20. 52	·1064	15. 16	·00910			
12. 13	57. 10	23. 59	·1036	17. 51	·01070			
12. 45	56. 30			19. 45	·01130			
13. 46	58. 15			20. 54	·01150			
15. 7	57. 15			22. 52	·01120			
16. 50	58. 10							
18. 18	54. 0							
19. 25	57. 0							
19. 54	58. 0							
20. 30	55. 35							
21. 58	21. 57. 30							
23. 59	22. 4. 45							
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 8	22. 5. 30	0. 0	·1036	0. 0	·01070	11. 40	56 ·2	
0. 29	6. 45			3. 13	·00950	21. 40	53 ·0	54 ·8
1. 3	6. 0	2. 34	·1038	5. 25	·00800			
1. 15	7. 10	3. 7	·1046		·00850			
2. 25	3. 15	3. 34	·1041	8. 58	·00790			
2. 56	4. 35	12. 40	·1063	9. 50	·00800			
3. 35	22. 1. 35	13. 8	·1057	10. 15	·00850			
5. 23	21. 58. 30	14. 15	·1056	12. 30	·00990			
9. 32	56. 10	20. 15	·1066	16. 10	·01320			
9. 50	52. 45	23. 22	·1050	18. 9	·01480			
10. 14	56. 0	23. 59	·1048	18. 16	·01460			
11. 18	56. 30			22. 36	·01440			
11. 36	59. 20			23. 59	·01460			
12. 19	54. 30							
14. 28	57. 45							
16. 35	57. 35							
17. 8	59. 0							
21. 28	56. 40							
22. 40	21. 57. 40							
23. 36	22. 1. 30							
23. 59	0. 50							
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 17	22. 0. 40	0. 0	·1047	1. 30	·01350	1. 40	55 ·0	57 ·0
0. 43	2. 10	0. 40	·1044	2. 26	·01240	3. 40	56 ·5	58 ·5
1. 0	1. 25	1. 4	·1048	4. 35	·00790	9. 40	56 ·5	57 ·5
2. 2	22. 0. 35	1. 15	·1046	4. 37	·00810	21. 40	48 ·0	51 ·0
4. 58	21. 57. 0	4. 53	·1050	7. 16	·00770			
9. 17	56. 10	13. 44	·1066		·00850			
11. 28	57. 0	13. 50	·1080	7. 49	·00840			
12. 39	55. 20	13. 56	·1075	9. 5	·00860			
13. 50	57. 30	14. 53	·1068	10. 51	·00980			
14. 56	53. 35	15. 37	·1083	12. 36	·01170			
15. 23	56. 30	16. 22	·1050	13. 30	·01270			
16. 1	52. 0	16. 48	·1086	13. 53	·01330			
16. 16	52. 15	18. 0	·1069	13. 58	·01350			
16. 25	57. 0	20. 40	·1080	14. 3	·01350			
16. 42	50. 0	21. 6	·1070	14. 34	·01420			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 23		Oct. 23		Oct. 23				
h m	° ′ ″	h m		h m		h m	°	
16. 58	21. 56. 0	21. 57	·1064	14. 36	·01400			
17. 32	56. 35	22. 7	·1074	15. 7	·01390			
17. 55	55. 25			15. 55	·01350			
19. 2	59. 30	23. 22	·1053	16. 23	·01340			
19. 10	58. 0			16. 29	·01360			
20. 18	58. 0	23. 59	·1044	16. 41	·01340			
21. 42	54. 40			21. 25	·01388			
22. 20	21. 59. 0			23. 0	·01410			
23. 59	22. 0. 30				·01370			
				23. 38	·01410			
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 10	22. 1. 0	0. 0	·1045	0. 0	·01420	1. 40	51 ·0	53 ·5
0. 30	3. 20	0. 20	·1062	0. 35	·01410	3. 40	51 ·0	53 ·5
1. 9	0. 25	1. 2	·1044	1. 26	·01380	9. 40	56 ·0	57 ·0
1. 25	2. 35	1. 16	·1060	2. 0	·01290	21. 40	52 ·5	53 ·5
1. 46	2. 0	1. 31	·1050					
1. 56	4. 0	1. 53	·1062	3. 15	·01050			
2. 17	2. 10	2. 14	·1052	4. 8	·00780			
3. 1	5. 0			4. 29	·00830			
3. 17	7. 30	3. 4	·1065					
4. 24	6. 30	4. 10	·1052	7. 21	·00780			
4. 47	1. 15	4. 23	·1042	10. 1	·00750			
5. 31	22. 0. 0	4. 49	·1025	11. 10	·00710			
5. 44	21. 58. 20			11. 45	·00690			
6. 24	59. 0	5. 55	·1052	12. 30	·00710			
7. 35	57. 0	6. 18	·1040	14. 43	·00760			
10. 16	55. 30			17. 5	·00840			
10. 42	52. 0	7. 32	·1051	20. 55	·01150			
11. 22	55. 20	9. 41	·1051	22. 6	·01210			
11. 54	54. 50	10. 10	·1066	23. 15	·01250			
12. 6	56. 30	10. 27	·1070	23. 59	·01260			
13. 5	55. 30	10. 41	·1062					
14. 7	57. 25	11. 10	·1071					
15. 8	21. 55. 30	11. 47	·1056					
15. 34	22. 0. 0	12. 4	·1062					
16. 2	21. 57. 35	12. 30	·1054					
16. 40	21. 57. 25	15. 36	·1054					
17. 28	22. 0. 0	18. 0	·1071					
17. 44	21. 58. 25	18. 44	·1060					
18. 25	22. 0. 30	19. 15	·1073					
18. 56	21. 59. 40	19. 53	·1077					
19. 25	21. 57. 0							
20. 7	22. 1. 10	22. 23	·1040					
20. 55	21. 57. 45	23. 4	·1047					
21. 9	58. 30	23. 48	·1038					
21. 28	56. 0	23. 59	·1047					
21. 58	59. 0							
22. 30	21. 56. 45							
23. 6	22. 1. 35							
23. 26	2. 15							
23. 34	0. 40							
23. 56	0. 45							
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
0. 22	21. 58. 10	0. 0	·1048	1. 0	·01270	1. 40	53 ·5	55 ·0
1. 20	22. 4. 25	1. 5	·1058	2. 5	·01230	3. 40	54 ·0	56 ·5
1. 40	5. 0	1. 30	·1054	2. 13	·01250	9. 40	52 ·5	55 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
h m	° ′ ″	h m		h m		h m	°	°
1. 46	22. 2. 35	2. 4	·1040	2. 20	·01230	21. 40	46 ·0	49 ·0
2. 9	3. 25	2. 15	·1044	3. 21	·01160			
2. 20	8. 0	2. 30	·1023		***			
2. 33	22. 2. 0	3. 23	·1055	4. 0	·01060			
3. 2	21. 57. 35		***	5. 30	·00900			
3. 57	22. 1. 0	4. 14	·1050	7. 20	·00770			
5. 43	21. 59. 0		***	8. 46	·00780			
6. 13	54. 50	4. 44	·1060	9. 56	·00840			
6. 38	57. 10		***	10. 11	·00860			
7. 20	56. 0	5. 30	·1042	11. 9	·00850			
7. 37	54. 15		***	12. 15	·00970			
7. 48	57. 20	5. 55	·1040	12. 45	·01010			
8. 30	53. 45		***		} ·01430			
8. 47	55. 20	6. 30	·1056	16. 22	} ·01390			
9. 5	46. 10	7. 5	·1042	18. 51	·01410			
9. 20	52. 20	7. 15	·1052		} ·01390			
9. 47	36. 20	7. 37	·1036	22. 5	} ·01340			
9. 58	35. 30	8. 4	·1054					
10. 17	43. 0	8. 20	·1040					
10. 29	41. 50	9. 2	·1052					
10. 58	43. 0	9. 14	·1068					
11. 16	48. 0	9. 36	·1044					
11. 46	47. 10	10. 37	·1104					
12. 20	53. 10	11. 10	·1054					
13. 28	21. 56. 0	11. 32	·1066					
13. 52	22. 0. 0	12. 7	·1046					
14. 25	22. 0. 30	13. 16	·1045					
15. 5	21. 59. 20	13. 36	·1058					
15. 58	22. 1. 0	13. 51	·1054					
16. 46	21. 56. 30	17. 0	·1069					
18. 30	22. 3. 0	18. 0	·1054					
18. 43	0. 0		***					
19. 13	22. 0. 40	19. 0	·1068					
19. 37	21. 58. 0	20. 13	·1066					
20. 13	22. 0. 10		***					
20. 50	21. 56. 35	20. 44	·1056					
21. 19	59. 0	21. 3	·1063					
21. 57	56. 30	22. 0	·1056					
22. 18	58. 30	23. 59	·1054					
23. 59	59. 30							
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 13	21. 59. 45	0. 0	·1053	0. 0	·01390	1. 40	49 ·0	52 ·0
3. 32	22. 1. 0	1. 30	·1059	1. 16:	·01320	3. 40	52 ·0	55 ·0
4. 3	21. 56. 0	2. 44	·1052	2. 50	·01110	9. 40	54 ·0	55 ·5
4. 37	55. 45	3. 18	·1056	4. 16	·00760	21. 40	46 ·0	48 ·5
4. 56	51. 40	4. 2	·1038	7. 19	·00720			
5. 43	57. 0	4. 14	·1046	7. 34	·00730			
7. 7	57. 30	5. 2	·1042	7. 46	·00710			
7. 28	44. 15	5. 39	·1054	8. 9	·00700			
7. 42	51. 45	6. 50	·1057	10. 15	·00710			
7. 53	47. 30	7. 24	·1043	11. 5	·00690			
8. 2	51. 0	7. 40	·1090	11. 19	·00700			
8. 10	50. 0	7. 51	·1078	11. 34	·00690			
8. 29	55. 0	7. 57	·1086	13. 55	·00800			
8. 42	54. 10	8. 10	·1074	15. 23	·00930			
9. 14	54. 50	8. 17	·1076	18. 59	·01430			
9. 27	56. 0	8. 44	·1049	19. 1	·01410			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 26		Oct. 26		Oct. 26		Oct. 27		
h m	° ′ ″	h m		h m		h m	°	°
9. 43	21. 54. 30	9. 40	·1050	22. 28	·01390			
10. 42	58. 0	10. 0	·1059	23. 5	·01410			
11. 2	56. 50	10. 20	·1054					
11. 13	59. 30	10. 45	·1060					
11. 46	56. 0	11. 18	·1066					
12. 8	57. 30	11. 54	·1056					
12. 30	56. 30	16. 5	·1066					
12. 46	58. 30	19. 0	·1079					
13. 8	57. 45	21. 6	·1074					
13. 43	59. 20	23. 57	·1054					
15. 31	57. 30							
16. 50	58. 50							
22. 28	57. 45							
23. 7	59. 45							
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 15	22. 2. 0	0. 15	·1054	0. 0	·01420	2. 15	49 ·0	52 ·0
0. 40	22. 0. 40		***	1. 54	·01370	3. 40	51 ·0	54 ·0
1. 34	21. 59. 10	1. 35	·1050	4. 7	·00950	9. 40	54 ·0	55 ·0
1. 50	22. 1. 40		***	4. 29	·00840	21. 40	51 ·0	54 ·0
2. 44	22. 1. 0	1. 50	·1056	4. 33	·00850			
3. 25	21. 52. 30		***	7. 7	·00810			
4. 33	58. 0	2. 45	·1046	11. 19	·00750			
6. 46	55. 50	3. 0	·1035	12. 15	·00770			
7. 3	53. 0	3. 30	·1032	17. 55	·01010			
7. 34	55. 0		***	20. 30	·01060			
7. 45	53. 25	4. 30	·1046	22. 24	·01070			
8. 7	56. 30		***	23. 54	·01010			
8. 54	55. 30	5. 6	·1042					
9. 16	53. 0	7. 7	·1051					
10. 5	56. 30	7. 23	·1058					
	(†)	7. 50	·1052					
		8. 5	·1062					
		8. 31	·1048					
		9. 50	·1054					
		10. 15	·1053					
			(†)					
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 5	22. 2. 35	0. 0	·1050	0. 15	·00960	1. 40	54 ·5	56 ·0
3. 14	21. 58. 0	2. 40	·1040		} ·00780	3. 40	56 ·0	58 ·0
6. 5	57. 0	10. 55	·1059	1. 41	} ·00820	9. 40	55 ·5	57 ·0
7. 10	57. 0	11. 24	·1053	3. 53	·00850	22. 30	48 ·0	51 ·0
7. 41	54. 20	12. 4	·1057	7. 44	·00820			
7. 56	56. 10	19. 35	·1073	7. 51	·00850			
8. 13	55. 0	22. 15	·1072	10. 1	·00890			
8. 32	56. 45		(†)	11. 45	·00950			
10. 1	57. 15			12. 15	·00980			
10. 38	54. 45			14. 25	·01150			
11. 8	56. 30			17. 51	·01520			
11. 37	55. 30			17. 55	·01510			
11. 55	56. 30			21. 24	·01480			
12. 25	55. 20			22. 30	·01460			
13. 25	57. 35							
20. 34	59. 0							
23. 59	58. 35							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 29	° ′ ″	Oct. 29		Oct. 29		Oct. 29	°	°
h m		h m		h m		h m		
0. 10	21. 58. 30	0. 0	·1067	0. 0	·01420	9. 40	57 ·0	59 ·0
4. 21	56. 30	2. 25	·1053	1. 11	·01440	21. 40	54 ·0	55 ·0
8. 21	56. 30	6. 5	·1047	2. 17	·01310			
21. 46	21. 58. 0	20. 30	·1069	3. 12	·01140			
23. 59	22. 0. 40	23. 59	·1058	4. 20	·00890			
				6. 21	·00920			
				10. 14	·00840			
				11. 15	·00830			
				15. 2	·00890			
				18. 26	·00960			
				21. 40	·01120			
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
0. 8	22. 0. 35	0. 0	·1058	1. 0	·01120	1. 40	57 ·0	59 ·0
1. 0	2. 0	0. 48	·1051	2. 32	·00930	3. 40	60 ·0	61 ·5
2. 22	22. 0. 40	1. 15	·1053	3. 1	·00990	9. 40	62 ·0	63 ·0
2. 52	21. 58. 35	1. 53	·1044	3. 4	·01010	21. 40	57 ·0	59 ·0
4. 40	56. 20	4. 13	·1043	3. 10	·01030			
6. 57	57. 0	7. 17	·1048	5. 24	·01000			
10. 58	55. 30		***	5. 25	·01010			
11. 15	53. 40	8. 40	·1040	7. 43	·00960			
12. 24	57. 0	9. 11	·1048	9. 26	·00930			
18. 32	57. 40	11. 36	·1055	9. 30	·00950			
19. 22	59. 40	20. 5	·1064	11. 23	·00940			
21. 20	21. 55. 40	23. 59	·1040	13. 0	·00980			
23. 59	22. 1. 25			20. 29	·01280			
				23. 9	·01340			
				23. 59	·01390			
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 10	22. 2. 0	0. 0	·1040	1. 0	·01300	1. 40	62 ·0	63 ·0
1. 24	2. 0		***	2. 55	·01010	3. 40	64 ·0	65 ·0
2. 40	22. 0. 30	9. 20	·1044		·01050	9. 40	64 ·2	66 ·0
4. 12	21. 57. 15	12. 45	·1054	3. 35	·01050	21. 40	55 ·0	56 ·0
7. 57	57. 0		***		·01090			
11. 23	54. 50	15. 16	·1056	5. 32	·01020			
11. 48	56. 45	17. 8	·1064	5. 39	·01090			
12. 12	52. 45	22. 33	·1068	7. 24	·01000			
15. 40	57. 30	23. 59	·1064	7. 30	·01020			
13. 56	56. 0			10. 51	·00990			
15. 35	57. 30			12. 30	·01040			
22. 15	21. 56. 15			13. 15	·01070			
23. 59	22. 0. 30			14. 56	·01220			
				18. 1	·01650			
				18. 8	·01640			
				19. 52	·01620			
				22. 31	·01580			
				23. 59	·01610			
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 13	22. 1. 30	0. 0	·1063	1. 47	·01590	1. 40	57 ·0	59 ·0
0. 44	2. 0	0. 8	·1059		·01450	3. 40	61 ·0	62 ·0
0. 55	4. 0	0. 45	·1054	2. 15	·01450	9. 40	60 ·0	61 ·0
1. 24	1. 30	1. 4	·1050	3. 36	·01300	21. 40	56 ·5	57 ·0
1. 51	5. 40	1. 31	·1058	4. 32	·01120			
2. 17	3. 0		***	5. 48	·00870			
	***	3. 9	·1032	8. 11	·00830			
2. 47	4. 0	3. 32	·1042	8. 17	·00820			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 1	° ′ ″	Nov. 1		Nov. 1			°	°
h m		h m		h m		h m		
3. 28	22. 1. 15	4. 6	·1024	8. 28	·00830			
3. 43	4. 10	4. 37	·1036	9. 54	·00810			
4. 5	22. 2. 50		***	10. 6	·00800			
4. 39	21. 55. 20	6. 46	·1038	10. 30	·00820			
5. 18	22. 0. 20	7. 20	·1024	12. 0	·00930			
5. 42	21. 58. 15	7. 30	·1036	13. 15	·00990			
6. 2	59. 25		***	18. 49	·01340			
6. 18	21. 57. 15	8. 4	·1030	22. 39	·01330			
6. 43	22. 1. 30	8. 20	·1008	23. 59	·01360			
7. 21	21. 53. 35	8. 35	·1038					
7. 29	54. 15	8. 53	·1026					
7. 38	55. 30	9. 30	·1035					
7. 45	56. 45	9. 53	·1054					
7. 50	55. 40		***					
8. 5	58. 0	10. 30	·1044					
8. 24	46. 30		***					
8. 45	54. 30	12. 40	·1054					
8. 57	50. 0	14. 39	·1052					
9. 16	52. 45	18. 25	·1062					
9. 37	52. 50	21. 0	·1059					
9. 53	57. 50	21. 50	·1047					
10. 29	47. 30	23. 59	·1051					
11. 4	53. 30							
13. 32	55. 0							
14. 43	58. 30							
17. 20	56. 30							
20. 2	57. 0							
22. 4	21. 59. 0							
23. 59	22. 2. 40							
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
0. 13	22. 2. 30	0. 0	·1051	1. 0	·01540	1. 40	57 ·0	59 ·0
0. 58	2. 0	1. 8	·1052	2. 53	·01470	3. 40	60 ·0	61 ·0
1. 51	3. 30	2. 39	·1036	4. 20	·01270	9. 40	61 ·0	62 ·0
2. 13	1. 20	5. 20	·1044	6. 2	·01000	21. 40	55 ·2	57 ·0
3. 18	0. 0	6. 0	·1030	7. 4	·00870			
3. 57	22. 1. 30	6. 45	·1047	8. 25	·00760			
5. 6	21. 59. 45	7. 45	·1051		·00800			
5. 37	22. 0. 0	8. 25	·1045	10. 0	·00780			
6. 6	21. 53. 15	8. 53	·1052	12. 9	·00840			
6. 51	57. 30	9. 20	·1046	12. 45	·00840			
7. 36	55. 45	10. 0	·1054	13. 39	·00860			
8. 17	56. 45	13. 7	·1062	17. 15	·01020			
8. 42	54. 30	14. 20	·1056	19. 24	·01180			
8. 53	57. 0	16. 45	·1054	22. 31	·01510			
10. 27	53. 30	19. 30	·1061	22. 37	·01500			
11. 35	56. 0	22. 30	·1050	23. 32	·01490			
11. 52	21. 55. 30	23. 59	·1050		·01450			
12. 35	22. 0. 30			23. 59	·01480			
13. 3	21. 57. 40							
13. 42	58. 25							
14. 7	56. 35							
15. 53	58. 0							
16. 21	56. 30							
17. 55	58. 0							
19. 16	57. 0							
21. 35	59. 0							
22. 17	56. 35							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 2								
h m	° ′ ″	h m		h m		h m		
23. 14	22. 1. 0							
23. 35	21. 59. 45							
23. 46	22. 0. 30							
23. 59	0. 30							
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 12	22. 1. 30	0. 5	·1048	0. 30	·01500	1. 40	56 ·0	57 ·5
0. 25	1. 0	0. 51	·1050	1. 40	·01550	3. 40	57 ·0	58 ·5
0. 53	2. 30	3. 4	·1043	2. 54	·01530	9. 40	55 ·0	57 ·0
1. 5	1. 30	4. 45	·1050	4. 21	·01410	21. 40	48 ·0	50 ·0
1. 37	22. 1. 30	6. 30	·1045	7. 15	·01320			
2. 58	21. 58. 35	8. 0	·1058	8. 26	·01360			
5. 7	54. 40	18. 55	·1079	10. 17	{ ·01510			
5. 55	55. 0	21. 0	·1076		‌ ·01470			
6. 31	56. 35	23. 55	·1056	12. 15	·01470			
10. 49	57. 0			13. 27	·01460			
14. 22	58. 50			18. 54	·01430			
18. 35	57. 50			23. 59	·01440			
19. 43	59. 0							
21. 51	21. 57. 30							
23. 42	22. 1. 10							
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 7	22. 0. 30	0. 36	·1054	1. 0	·01420	1. 40	49 ·5	51 ·5
0. 55	1. 0	1. 0	·1060	2. 5	·01380	3. 40	51 ·0	53 ·5
5. 10	22. 0. 0	3. 15	·1051	3. 0	·01280	9. 40	54 ·0	54 ·0
7. 48	21. 57. 15	6. 50	·1065	3. 45	·01170	22. 23	55 ·2	56 ·0
8. 25	49. 10	8. 6;	·1054	4. 54	·00940			
9. 0	54. 10	8. 45;	·1069	7. 15	·00580			
9. 50	55. 45	9. 8	·1064	7. 18	·00590			
10. 53	54. 35	14. 5	·1063	8. 59	·00600			
14. 6	21. 57. 30	14. 18	·1071	10. 50	·00580			
14. 22	22. 1. 35	17. 14	·1066	13. 15	·00580			
14. 47	21. 58. 35	17. 45	·1070	14. 12	·00580			
15. 22	59. 20	20. 30	·1060	14. 21	·00590			
16. 37	57. 10	23. 59	·1054	14. 43	·00570			
16. 58	58. 30			19. 40	·00570			
18. 7	56. 35			23. 59	·00580			
18. 40	57. 30							
21. 43	21. 57. 0							
23. 59	22. 2. 0							
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 1	22. 2. 0	0. 0	·1054	0. 0	·00590	10. 58	55 ·0	56 ·5
1. 52	22. 3. 0	1. 51	·1056	3. 15	·00670	21. 40	50 ·0	52 ·5
5. 55	21. 57. 50	5. 45	·1054	7. 21	·00650			
6. 36	57. 0	7. 35	·1062	9. 5	·00670			
7. 43	58. 40	9. 23	·1060	10. 45	·00730			
8. 12	57. 30	13. 55	·1070	11. 53	·00800			
9. 3	58. 30	14. 51	·1062	14. 14	·00980			
16. 46	21. 57. 45	18. 30	·1076	19. 8	{ ·01510			
19. 58	22. 0. 30	22. 45	·1063		‌ ·01460			
22. 12	0. 0	23. 6	·1056	23. 5	·01450			
22. 43	1. 25	23. 59	·1057	23. 59	·01480			
23. 1	0. 10							
23. 43	3. 35							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 3. 40	0. 0	·1057	1. 0	·01490	1. 40	52 ·5	53 ·5
5. 5	21. 59. 15	2. 0	·1052	2. 26;	·01360	3. 40	53 ·5	55 ·0
6. 30	57. 30	3. 25	·1046	3. 24	·01170	9. 40	54 ·0	55 ·0
7. 45	58. 0	7. 40	·1056	4. 57	·00820	21. 40	46 ·0	48 ·0
8. 8	57. 30	8. 53	·1051	6. 27	·00610			
8. 40	55. 15	10. 45	·1058	6. 28	·00660			
9. 23	56. 30	11. 15	·1066	9. 36	·00610			
10. 20	56. 30	11. 35	·1062	11. 37	·00690			
10. 55	57. 30	13. 10	·1066	13. 15	·00850			
12. 16	54. 20	14. 8	·1060	17. 4	·01410			
13. 5	57. 40	14. 50	·1070	17. 7	·01380			
13. 26	56. 40	19. 39	·1081	19. 6	·01380			
14. 17	58. 0	20. 40	·1070	21. 15	·01410			
15. 10	57. 0	21. 30	·1072	23. 59	·01420			
16. 43	59. 10	23. 59	·1059					
18. 17	57. 30							
21. 3	59. 20							
22. 5	21. 58. 0							
22. 53	22. 0. 0							
23. 59	1. 25							
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 37	22. 2. 30	0. 0	·1058	1. 0	·01310	1. 40	48 ·0	52 ·0
2. 30	22. 2. 20	0. 26	·1056	1. 41	·01250	3. 40	51 ·0	53 ·0
5. 2	21. 58. 35	0. 40	·1058	2. 50	·01080	10. 10	52 ·0	56 ·0
11. 4	57. 0	7. 45	·1062	5. 9	·00600	21. 40	49 ·0	52 ·0
11. 15	58. 0			5. 15	·00620			
11. 39	56. 45	14. 25	·1059	6. 13	·00640			
12. 5	57. 35	16. 34	·1074	11. 45	·00560			
12. 29	56. 10	17. 24	·1069	12. 44	·00560			
12. 57	57. 35	19. 10	·1078	16. 49	·00600			
13. 13	56. 30	22. 23	·1046	19. 10	·00720			
13. 25	58. 30	23. 36	·1040	21. 16	·00900			
13. 48	57. 30		(†)	23. 27	·01080			
14. 5	59. 30			23. 59	·01120			
14. 43	21. 58. 0							
15. 4	22. 1. 0							
15. 37	21. 59. 0							
16. 8	22. 1. 0							
16. 42	21. 59. 0							
17. 35	59. 30							
18. 7	21. 58. 0							
18. 47	22. 0. 0							
19. 8	21. 59. 0							
20. 52	21. 58. 30							
22. 1	22. 2. 0							
22. 35	0. 30							
23. 37	3. 30							
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 45	22. 5. 10	0. 39	·1040	0. 45	·01120	1. 40	51 ·0	53 ·0
1. 4	4. 30	1. 13	·1040	2. 11	·01100	3. 40	53 ·0	54 ·0
1. 19	5. 40	1. 35	·1024	3. 0	·01020	9. 40	54 ·0	55 ·0
2. 0	5. 30	2. 10	·1040	3. 17	{ ·00660	21. 40	47 ·0	51 ·0
2. 25	9. 30	2. 40;	·1030		‌ ·00730			
3. 10;	3. 10	4. 0	·1046	11. 6	·00640			
4. 28	4. 40			12. 29	·00620			
4. 49	3. 0	6. 0	·1041	13. 2	·00610			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 8		Nov. 8		Nov. 8				
h m	° ′ ″	h m		h m		h m		
5. 26	22. 4. 25	6. 44	·1046	14. 22	·00650			
6. 3	22. 1. 20	7. 15	·1038	14. 40	·00660			
8. 1	21. 57. 30	7. 51	·1049	14. 57	·00640			
9. 1	54. 0	8. 15	·1044	19. 54	·01220			
10. 2	56. 30			21. 16	·01430			
10. 53	54. 35	9. 56	·1054	21. 18	·01390			
11. 12	55. 0	11. 20	·1048	23. 15	·01380			
11. 30	52. 40	13. 6	·1060	23. 59	·01410			
12. 25	53. 10	14. 8	·1058					
13. 2	56. 30	14. 23	·1050					
13. 52	55. 35	14. 53	·1077					
14. 12	21. 54. 45	15. 17	·1066					
14. 25	22. 2. 0	16. 0	·1066					
14. 35	22. 2. 30	17. 45	·1073					
15. 14	21. 49. 45	18. 31	·1062					
16. 14	58. 45	19. 15	·1078					
16. 26	57. 45	20. 0	·1068					
17. 52	21. 59. 20	20. 30:	·1074					
18. 47	22. 5. 50	23. 36	·1052					
20. 16	21. 59. 0	23. 59	·1053					
21. 27	57. 30							
21. 40	55. 50							
22. 20	59. 15							
23. 59	59. 45							
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
0. 5	22. 0. 0	0. 0	·1053	1. 30	·01430	1. 40	48 ·5	51 ·5
0. 51	0. 0	0. 30	·1053	2. 15	·01370	3. 40	51 ·0	52 ·0
1. 58	2. 0	1. 30	·1054	4. 32	·01060	9. 40	49 ·0	50 ·0
2. 15	0. 30	2. 15	·1050	7. 40:	·00840	21. 40	40 ·0	44 ·0
4. 0	22. 1. 25	3. 30	·1055	10. 31	·00980			
4. 43	21. 58. 0	4. 15	·1044	12. 30	·01210			
5. 15	22. 0. 50	5. 6	·1056	13. 54	·01380			
11. 13	21. 57. 0				·01340			
11. 25	55. 45	11. 30	·1072	16. 8	·01340			
12. 15	57. 30	19. 50	·1084	21. 28	·01460			
12. 58	21. 58. 20	21. 33	·1082	23. 59	·01480			
16. 43	22. 0. 30		(†)					
21. 59	21. 59. 0							
Nov. 1		Nov. 10		Nov. 10		Nov. 10		
0. 15	22. 0. 15	0. 45	·1068	1. 15	·01520	1. 40	42 ·5	45 ·0
5. 31	21. 57. 30	5. 25	·1068	1. 49	·01460	3. 40	45 ·0	48 ·0
9. 47	57. 15	8. 30	·1063	3. 5	·01270	9. 45	50 ·0	52 ·0
11. 5	56. 0	10. 40	·1068	4. 45	·00900	21. 40	51 ·0	53 ·0
16. 14	58. 0	18. 0	·1068	5. 40	·00710			
22. 17	21. 58. 0	22. 8	·1066	5. 45	·00730			
23. 59	22. 0. 30	23. 59	·1058	8. 26	·00730			
				11. 52	·00700			
				15. 21	·00720			
				19. 56	·00730			
				21. 56	·00720			
				23. 59	·00690			
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
0. 7	22. 0. 30	0. 0	·1057	1. 0	·00970	1. 40	53 ·5	55 ·0
1. 32	22. 0. 25	1. 30	·1054	3. 21	·01140	3. 40	57 ·0	58 ·5
4. 23	21. 57. 25	5. 45	·1056	9. 41	·01650	9. 40	55 ·0	55 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
h m	° ′ ″	h m		h m		h m	°	°
5. 45	21. 56. 30	17. 45	·1074	9. 55	·01640	22. 30	49 ·0	50 ·0
16. 58	59. 10	20. 30	·1074	11. 0	·01630			
20. 8	58. 10	23. 59	·1062	13. 15	·00770			
22. 7	57. 0			14. 56	·00830			
23. 59	58. 50			15. 22	·00830			
					·00940			
				16. 30	·00860			
				17. 36	·00870			
				19. 34	·00810			
				21. 26	·00830			
				23. 59	·00910			
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 7	21. 59. 0	0. 0	·1062	0. 0	·01630	10. 57	46 ·0	46 ·8
1. 44	22. 0. 15	12. 0	·1076	3. 16	·01650	21. 40	44 ·5	47 ·0
4. 7	21. 58. 0	15. 0	·1078	7. 3	·01500			
11. 13	57. 45	19. 16	·1080	10. 45	·01550			
13. 16	56. 45	22. 34	·1064	12. 30	·01580			
16. 11	59. 20	23. 59	·1064	12. 47	·01650			
21. 58	57. 30				·01590			
22. 55	21. 59. 30			18. 31	·01560			
23. 59	22. 0. 0			22. 45	·01550			
				23. 59	·01550			
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 8	22. 0. 30	0. 0	·1063	1. 0	·01570	1. 40	46 ·0	47 ·0
1. 26	22. 2. 30	1. 0	·1059	2. 43:	·01480	3. 40	50 ·0	51 ·0
5. 50	21. 56. 30	3. 14	·1056	4. 5	·01250	9. 40	50 ·0	51 ·0
6. 17	54. 50	12. 0	·1072	6. 21	·00800	21. 40	47 ·0	49 ·0
6. 53	57. 0	19. 45	·1082	7. 29	·00670			
16. 52	57. 25	23. 59	·1054	7. 32	·00690			
18. 23	57. 50			11. 55	·00670			
20. 15	57. 30			13. 0	·00680			
22. 1	21. 56. 30			14. 10	·00700			
23. 59	22. 0. 15			19. 15	·00820			
				23. 13	·00910			
				23. 59	·00930			
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 30	22. 1. 30	0. 0	·1054	1. 15	·00890	1. 40	48 ·0	50 ·0
1. 15	22. 0. 30	3. 40	·1060	2. 0	·00850	3. 40	50 ·0	51 ·5
3. 48	21. 57. 40	5. 23	·1056	4. 9	·00680	9. 40	48 ·5	50 ·0
6. 32	57. 25	8. 6	·1059		·00810	21. 40	46 ·0	47 ·5
7. 0	53. 30	9. 33	·1070	6. 35	·00730			
7. 53	57. 0	18. 45	·1082	8. 9	·00720			
10. 24	57. 10	22. 10	·1076	10. 6	·00730			
15. 53	54. 45	23. 8	·1064	12. 42	·00910			
18. 50	58. 25	23. 59	·1059	13. 15	·00930			
20. 55	21. 57. 0			16. 0	·01170			
23. 59	22. 0. 0			17. 49	·01340			
				21. 11:	·01550			
				23. 51	·01440			
				23. 59	·01430			
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 8	22. 0. 30	0. 0	·1059	0. 45	·01350	1. 40	49 ·0	51 ·0
1. 32	2. 0	0. 45	·1058	2. 26	·01110	3. 40	53 ·0	54 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Nov.15		Nov.15		Nov.15		Nov.15		
h m	° ′ ″	h m		h m		h m	°	
1. 52	22. 0. 25	5. 0	·1059	3. 46	·00810	9. 40	53 ·0	54 ·0
2. 35	22. 0. 30	5. 51	·1052		·00830	21. 40	49 ·5	52 ·3
3. 30	21. 59. 25	9. 4	·1056	5. 17	·00840			
3. 51	59. 30		***	6. 46	·00820			
5. 2	58. 30	13. 25	·1060	10. 30	·00770			
5. 43	59. 0	16. 16	·1070	12. 15	·00880			
9. 32	56. 0	18. 0	·1066	12. 45	·00810			
10. 12	51. 0	18. 45	·1070	18. 9	·01120			
10. 56	52. 15	20. 23	·1062	19 50	·01160			
13. 5	58. 45	20. 55	·1070	23. 37	·01190			
15. 45	58. 15	22. 41	·1053	23. 59	·01180			
16. 47	21. 57. 20	23. 59	·1054					
18. 32	22. 0. 0							
19. 42	21. 56. 25							
20. 45	21. 59. 45							
21. 25	21. 59. 15							
23. 23	22. 2. 30							
23. 59	2. 0							
Nov.16		Nov.16		Nov.16		Nov.16		
0. 15	22. 1. 15	0. 0	·1054	1. 15	·01130	1. 40	52 ·0	54 ·0
0. 40	2. 10	3. 6	·1052	2. 4	·01060	3. 40	55 ·0	56 ·0
1. 12	0. 40	17. 0	·1076	3. 8	·00930	9. 40	55 ·5	57 ·5
1. 26	1. 40	17. 50	·1072	3. 40	·00840	21. 40	48 ·7	52 ·3
1. 45	22. 0. 35	20. 0	·1074		·00910			
5. 26	21. 57. 30	23. 25	·1058	7. 24	·00830			
11. 13	21. 58. 0	23. 59	·1060	10. 30	·00820			
14. 40	22. 0. 0			12. 44	·00920			
16. 42	22. 0. 0			13. 30	·00970			
17. 28	21. 58. 35			16. 24	·01310			
18. 18	59. 40			19. 13	·01610			
21. 56	21. 57. 35			19. 18	·01610			
23. 59	22. 1. 20			20. 45	·01600			
				23. 13	·01630			
				23. 59	·01640			
Nov.17		Nov.17		Nov.17		Nov.17		
0. 6	22. 1. 25	0. 0	·1060	0. 45	·01610	1. 40	50 ·0	52 ·0
1. 4	22. 1. 50	6. 0	·1068	2. 3	·01550	3. 40	51 ·5	53 ·5
4. 2	21. 59. 0	8. 7	·1058	5. 8	·01210	9. 40	52 ·0	53 ·5
7. 58	58. 15	9. 25	·1059	7. 9	·01070	21. 40	48 ·0	49 ·0
9. 53	57. 0	10. 20	·1070	9. 31	·01030			
10. 55	53. 30	11. 15	·1066	12. 15	·01090			
11. 27	56. 0	19. 0	·1078	12. 45	·01090			
12. 32	57. 35	23. 15	·1066	13. 47	·01150			
17. 8	59. 30	23. 59	·1066	16. 53	·01320			
19. 35	58. 30			20. 21	·01540			
20. 6	56. 30			23. 26	·01560			
21. 0	56. 30							
22. 0	21. 57. 0							
23. 28	22. 0. 0							
Nov.18		Nov.18		Nov.18		Nov.18		
0. 0	22. 0. 0	0. 0	·1066	0. 0	·01560	1. 40	49 ·0	50 ·0
1. 5	21. 59. 15	5. 6	·1064	2. 21:	·01570	3. 40	51 ·0	52 ·0
2. 16	22. 0. 30	9. 20	·1076	4. 22	·01440	9. 40	49 ·5	51 ·3
3. 55	21. 59. 0	20. 25	·1080	6. 32	·01290	23. 26	48 ·0	48 ·5
4. 53	22. 0. 0	23. 59	·1074	8. 0	·01260			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Nov.18				Nov.18				
h m	° ′ ″	h m		h m		h m	°	
9. 10	21. 57. 0			9. 19	·01260			
11. 18	57. 5			10. 45	·01290			
	***			12. 30	·01300			
13. 19	56. 30			14. 31	·01420			
15. 9	59. 30			16. 9	·01490			
17. 30	59. 30			17. 42	·01560			
21. 10	21. 57. 0				·01510			
23. 59	22. 0. 0			20. 50	·01540			
				23. 6	·01530			
Nov.19		Nov.19		Nov.19		Nov.19		
0. 15	22. 0. 30	0. 0	·1074	0. 10	·01540	8. 40	48 ·0	50 ·0
1. 14	22. 2. 0	6. 10	·1080	2. 9	·01560	21. 40	44 ·0	46 ·5
4. 0	21. 59. 0	7. 55	·1077	2. 45	·01550			
5. 10	58. 0	20. 30	·1088	5. 50	·01440			
8. 5	59. 0	23. 13	·1074	8. 17	·01360			
9. 0	21. 57. 30	23. 30	·1074	10. 21	·01360			
15. 15	22. 0. 0	23. 59	·1070	12. 7	·01360			
16. 55	22. 0. 55			13. 0	·01330			
21. 0	21. 57. 15			14. 45	·01430			
21. 20:	58. 0			16. 55	·01520			
21. 46	57. 0				·01470			
22. 50	21. 58. 5			19. 28	·01490			
	***			22. 40	·01500			
23. 55	22. 1. 0			22. 55	·01460			
				23. 59	·01470			
Nov.20		Nov.20		Nov.20		Nov.20		
0. 5	22. 2. 0	0. 0	·1070	1. 15	·01450	1. 40	47 ·0	49 ·0
1. 15	22. 2. 0		***	2. 12	·01380	3. 40	50 ·0	51 ·0
3. 20	21. 59. 0	2. 0	·1062	2. 45	·01310	9. 40	58 ·0	59 ·0
3. 55	22. 0. 0	5. 45	·1074	3. 21	·01320	21. 40	46 ·0	46 ·5
4. 50	21. 57. 55			4. 4	·01090			
5. 25	22. 2. 55	7. 29	·1064	6. 25	·00740			
5. 45	0. 30		***	7. 43	·00650			
5. 55	1. 0	8. 23	·1076	9. 3	·00620			
6. 1	0. 0		***	12. 5	·00640			
6. 14	22. 1. 0	12. 45	·1074	13. 15	·00660			
6. 50	21. 58. 0	16. 14	·1082	15. 9	·00730			
7. 16	59. 0	17. 30	·1074	18. 8	·00850			
7. 30	56. 0		***	21. 24	·01010			
7. 52	54. 30	18. 36	·1083	22. 45	·01060			
8. 32	58. 0		***	23. 50	·01090			
9. 0	59. 0	22. 15	·1076					
9. 21	57. 50	23. 5	·1068					
10. 27	57. 10	23. 59	·1070					
	***							
11. 16	58. 5							
12. 43	57. 30							
14. 10	59. 5							
15. 20	58. 45							
17. 15	58. 30							
18. 40	59. 35							
	***							
19. 23	57. 0							
	***							
20. 0	58. 50							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.20								
h m	° ′ ″	h m		h m		h m	°	°
21. 0	21. 57. 15							
	***							
21. 30	58. 45							
21. 42	56. 0							
21. 53	58. 55							
	***							
22. 55	21. 58. 10							
23. 30	22. 0. 30							
Nov.21		Nov.21		Nov.21		Nov.21		
0. 0	22. 1. 55	0. 0	·1070	0. 0	·01130	1. 40	47 ·5	47 ·5
0. 10	0. 50		***	1. 24	·01150	3. 40	48 ·5	49 ·0
0. 50	1. 5	2. 0	·1062	2. 15	·01140	9. 40	49 ·0	50 ·0
1. 6	3. 0		***	3. 53	·01030	21. 40	45 ·5	48 ·0
1. 10	1. 50	4. 36	·1056	6. 3	·00910			
1. 18	3. 55		***	8. 3	·00840			
1. 33	1. 50	6. 30	·1072	11. 45	·00680			
1. 40	2. 30		***	12. 0	·00670			
1. 53	1. 30	13. 55	·1072	13. 21	·00640			
2. 10	22. 2. 0		***	14. 28	·00610			
	***	16. 15	·1082	15. 36	·00600			
3. 46	21. 57. 15		***	16. 22	·00600			
4. 25	58. 0	17. 48	·1076	19. 36	·00700			
4. 45	56. 5		***	23. 24	·00930			
6. 5	58. 0	21. 15	·1084					
6. 55	57. 30	22. 15	·1067					
	***	23. 59	·1068					
7. 37	55. 55							
	***							
8. 25	57. 20							
9. 6	56. 30							
10. 0	57. 15							
10. 40	56. 30							
11. 44	58. 0							
11. 55	57. 0							
12. 55	58. 0							
13. 27	56. 30							
13. 44	58. 0							
14. 4	57. 0							
14. 40	21. 57. 55							
15. 21	22. 1. 15							
	***							
16. 25	21. 57. 0							
16. 45	58. 15							
17. 35	57. 10							
17. 50	59. 30							
18. 0	58. 0							
19. 25	21. 59. 5							
19. 40	22. 3. 0							
	***							
21. 0	21. 58. 5							
21. 10	22. 1. 0							
21. 35	22. 1. 15							
	***							
22. 18	21. 58. 10							
22. 35	22. 0. 30							
22. 54	21. 58. 30							
23. 30	22. 0. 55							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.22		Nov.22		Nov.22		Nov.22		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 0. 0	0. 0	·1068	0. 0	·00960	1. 40	47 ·0	48 ·0
0. 24	22. 2. 55	7. 10	·1066	1. 0	·01000	3. 40	49 ·0	50 ·0
0. 55	21. 59. 55	7. 32	·1058	1. 21	[illegible]	9. 40	48 ·0	49 ·0
5. 0	21. 58. 0	8. 0	·1058	2. 33	·00990	21. 40	42 ·5	44 ·0
7. 46	22. 1. 30	8. 23	·1072	4. 55	[illegible]			
8. 10	21. 57. 5	9. 15	·1060		·00720			
8. 25	57. 5	9. 37	·1096	6. 47	·00670			
8. 42	55. 0	10. 16	·1060	9. 44	·00680			
8. 58	58. 0	10. 35	·1067	10. 17	·00670			
9. 15	56. 55	13. 27	·1064	10. 23	·00660			
9. 30	51. 30	13. 55	·1094	10. 30	·00680			
9. 45	21. 59. 0	14. 40	·1066	12. 30	·00810			
10. 5	22. 0. 55	16. 5	·1078	14. 6	·00950			
10. 25	21. 52. 0	18. 45	·1082	14. 30	·00980			
12. 0	21. 57. 50	23. 30	·1068	14. 55	·01040			
12. 53	22. 1. 15	23. 59	·1068	18. 42	·01400			
13. 25	21. 57. 5			18. 50	·01410			
13. 44	54. 30			21. 20	·01400			
14. 7	58. 30			23. 30	·01400			
14. 25	58. 15							
14. 45	55. 55							
15. 15	21. 58. 30							
	***							
17. 55	22. 0. 0							
20. 0	21. 59. 5							
22. 15	57. 15							
	***							
23. 59	59. 55							
Nov.23		Nov.23		Nov.23		Nov.23		
0. 0	22. 0. 0	0. 0	·1068	0. 0	·01400	1. 40	45 ·0	46 ·0
	***	4. 20	·1058	0. 43	·01410	3. 40	48 ·0	48 ·0
0. 44	0. 0	5. 8	·1066	0. 56	·01400	9. 40	47 ·5	47 ·5
1. 0	1. 30		[illegible]	3. 26	·01140	21. 40	41 ·0	41 ·0
	[illegible]	9. 30	·1070	6. 45	·00700			
1. 30	0. 0	10. 0	·1080	7. 50	·00630			
1. 45	22. 0. 30	10. 45	·1067	9. 28	[illegible]			
2. 23	21. 58. 55	11. 57	·1078	9. 50	·00600			
	[illegible]	19. 30	·1084	11. 33	·00640			
3. 47	58. 30	23. 40	·1068	12. 15	·00670			
6. 8	56. 40			13. 13	[illegible]			
7. 37	55. 30			18. 15	·01180			
8. 5	57. 20			22. 5	·01410			
8. 28	52. 50				·01380			
8. 45	52. 40			23. 11	·01380			
9. 11	55. 45				·01350			
	[illegible]			23. 39	·01350			
10. 25	55. 0							
10. 55	56. 50							
11. 34	21. 56. 30							
	***							
15. 53	22. 0. 5							
	***							
17. 30	21. 58. 0							
	***							
19. 50	59. 0							
21. 46	57. 45							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 23								
h m	° ′	h m		h m		h m	°	°
23. 59	22. 1. 0							
Nov. 24		Nov. 24		Nov. 24		Nov. 24		
0. 37	22. 2. 0	0. 40	·1062	0. 0	·01350	1. 40	43 ·0	45 ·0
2. 42	22. 1. 0	1. 30	·1058	0. 59	·01360	3. 40	47 ·0	48 ·0
2. 56	21. 58. 5	2. 31	·1064	2. 15	·01280	9. 40	47 ·0	48 ·0
3. 8	58. 20	3. 10	·1054	2. 36	·01240	21. 40	42 ·5	43 ·5
3. 27	56. 25	4. 0	·1070	4. 54	·00870			
4. 18	59. 5	6. 29	·1074		·00760			
6. 7	21. 58. 10		***	7. 45	·00680			
7. 0	22. 0. 0	7. 25	·1050	9. 29	·00620			
7. 39	21. 58. 0	7. 55	·1066	11. 41	·00650			
8. 3	58. 30	8. 5	·1062	12. 30	·00700			
11. 5	55. 40	9. 0	·1068	13. 50	·00790			
11. 25	57. 30	10. 45	·1068	18. 0	·01180			
12. 7	55. 0	11. 15	·1086	18. 54	·01230			
		12. 9	·1066	21. 38	·01360			
13. 44	57. 45	15. 25	·1076	23. 17	·01400			
14. 35	56. 55	20. 10	·1080	23. 50	·01400			
16. 15	59. 0	23. 59	·1072					
18. 50	59. 30							
19. 0	58. 5							
20. 7	57. 30							
23. 0	57. 55							
23. 50	58. 45							
Nov. 25		Nov. 25		Nov. 25		Nov. 25		
0. 6	22. 0. 20	0. 0	·1072	0. 0	·01370	1. 40	43 ·5	45 ·5
7. 0	21. 58. 55	3. 30	·1068	1. 52	·01330	3. 40	46 ·0	47 ·3
8. 0	58. 0	15. 20	·1078	2. 33	·01260	9. 40	46 ·0	47 ·0
14. 0	59. 55	15. 39	·1084	3. 57	·01110	22. 32	42 ·0	43 ·0
21. 50	59. 55	16. 15	·1081	4. 32	·01020			
22. 20	21. 58. 0	23. 59	·1076	6. 33:	·00720			
22. 55	22. 2. 0			8. 19	·00650			
23. 37	1. 15			9. 20	·00640			
				11. 51	·00660			
				12. 45	·00690			
				14. 37	·00750			
				16. 4	·00800			
				17. 53	·00900			
				23. 0	·01300			
Nov. 26		Nov. 26		Nov. 26		Nov. 26		
0. 0	22. 0. 5	0. 0	·1076	0. 0	·01380	9. 30	43 ·5	45 ·3
6. 0	21. 58. 25	7. 35	·1076	1. 2	·01420	21. 40	40 ·5	43 ·0
	***	10. 15	·1081	1. 54	·01420			
8. 25	58. 0	11. 15	·1077	2. 58	·01410			
10. 9	54. 0	17. 0	·1084	6. 6	·01270			
13. 35	21. 59. 30	22. 12	·1077	9. 4	·01150			
16. 45	22. 1. 30		(†)	10. 42	·01140			
17. 45	22. 0. 0			11. 30	·01140			
22. 0	21. 59. 0			14. 9	·01180			
				15. 14	·01220			
				19. 54	·01410			
					·01330			
				22. 25	·01340			
					·01290			
				23. 59	·01270			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of D. F. Magnet.	Of V. F. Magnet.
Nov. 27		Nov. 27		Nov. 27		Nov. 27		
h m	° ′	h m		h m		h m	°	°
0. 20	22. 1. 0	0. 15	·1068	1. 2	·01300	1. 40	45 ·0	45 ·0
4. 0	21. 58. 25	2. 17	·1072		·01200	3. 40	45 ·0	45 ·0
7. 5	21. 59. 5	3. 21	·1065	2. 38	·01150	9. 40	41 ·0	43 ·0
		7. 30	·1076	6. 45	·00820	21. 40	42 ·0	44 ·5
8. 8	22. 1. 30	8. 0	·1070	8. 19	·00790			
	***	8. 37	·1078	12. 8	·00840			
9. 23	21. 56. 55	9. 10	·1068	13. 29	·00870			
	***	10. 15	·1076	18. 5	·01030			
10. 45	57. 15	11. 10	·1074	20. 25	·01000			
11. 21	58. 30	12. 0	·1087	21. 37	·00910			
11. 34	58. 0	14. 22	·1080	23. 59	·00810			
11. 50	58. 40	15. 15	·1081					
12. 10	57. 30	15. 45	·1092					
12. 30	59. 0	17. 55	·1088					
13. 5	21. 58. 30	18. 30	·1094					
13. 34	22. 0. 0	20. 30	·1083					
15. 6	21. 57. 50	23. 0	·1071					
15. 39	22. 2. 45	23. 45:	·1078					
16. 12	21. 56. 35	23. 59	·1077					
16. 44	54. 30							
	***							
17. 44	21. 59. 0							
	***							
22. 11	22. 1. 0							
23. 5	21. 0. 0							
23. 16	22. 0. 30							
23. 55	22. 4							
Nov. 28		Nov. 28		Nov. 28		Nov. 28		
0. 7	22. 3. 30	0. 0	·1077	0. 15	·00780	1. 40	45 ·0	46 ·0
	***	1. 0	·1059	0. 54	·00720	3. 40	47 ·5	48 ·0
0. 50:	3. 0		***	1. 47	·00680	9. 40	48 ·0	49 ·5
	***	1. 47	·1058	2. 34	·00700	21. 40	48 ·0	50 ·0
1. 25	6. 0	2. 16	·1044	5. 42	·00790			
1. 34	4. 20	2. 52	·1054	6. 8	·00780			
1. 47	22. 6. 5		***	6. 39	·00790			
2. 23	21. 59. 30	3. 30	·1042	8. 11	·00720			
2. 44	22. 0. 25	4. 7	·1052	11. 10	·00690			
3. 0	4. 45	4. 15	·1044	11. 30	·00700			
3. 23	6. 35	4. 35	·1052	11. 43	·00680			
3. 40	4. 0	5. 0	·1042	12. 6	·00660			
3. 50	6. 0	5. 13	·1046	12. 36	·00710			
4. 6	4. 40	5. 37	·1048	12. 58	·00700			
4. 11	6. 0	5. 49	·1056	17. 36	·00730			
4. 23	3. 45	6. 23	·1036		·00820			
4. 34	4. 20	6. 45	·1064	19. 31	·00780			
4. 47	7. 0	7. 21	·1052	23. 37	·00770			
5. 12	2. 30	8. 17	·1065					
5. 17	22. 2. 50	8. 45	·1060					
5. 38	21. 59. 0	10. 25	·1063					
5. 49	22. 1. 0	11. 2	·1086					
6. 45	21. 59. 5	11. 19	·1067					
	***	11. 32	·1096					
9. 55	56. 20	12. 35	·1042					
10. 34	56. 5	13. 15	·1062					
10. 44	53. 30	14. 0	·1056					
11. 0	48. 50	18. 30	·1078					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Nov.28		Nov.28						
h m	° ′ ″	h m		h m		h m		
11. 24	21. 55. 0	21. 35	·1066					
11. 29	54. 0	21. 50	·1058					
11. 45	54. 30	23. 59	·1056					
12. 20	45. 0							
12. 46	58. 55							
13. 13	52. 35							
13. 31	52. 25							
14. 0	54. 5							
14. 15	54. 0							
14. 46	56. 20							
15. 4	56. 0							
16. 14	58. 10							
16. 53	21. 57. 50							
17. 30	22. 1. 30							
18. 0	22. 1. 0							
18. 28	21. 46. 0							
19. 12	57. 20							
19. 38	21. 56. 5							
21. 40	22. 2. 0							
23. 39	1. 55							
Nov.29		Nov.29		Nov.29		Nov.29		
0. 0	22. 1. 50	0. 0	·1056	0. 0	·00770	1. 40	51 ·0	51 ·0
0. 36	1. 30	3. 0	·1046	2. 17	·00850	3. 40	55 ·0	56 ·0
0. 50	22. 2. 10	6. 30	·1054	5. 39	·00850	9. 40	51 ·0	52 ·5
	***	6. 44	·1058	8. 13	·00810	21. 40	45 ·0	46 ·5
2. 17	21. 59. 0	7. 0	·1055	11. 14	·00950			
5. 53	56. 30	18. 15	·1076	11. 45	·00980			
6. 0	55. 0	21. 0	·1076	14. 16	·01150			
6. 19	55. 30	23. 59	·1068	19. 17	·01530			
6. 38	53. 35			19. 32	·01520			
7. 35	57. 15			23. 15	·01490			
8. 0	56. 5			23. 59	·01510			
8. 15	56. 40							
8. 30	56. 0							
9. 15	56. 55							
9. 25	55. 15							
10. 6	57. 15							
15. 20	59. 30							
20. 36	58. 0							
22. 12	21. 58. 20							
23. 59	22. 0. 25							
Nov.30		Nov.30		Nov.30		Nov.30		
0. 0	22. 0. 20	0. 0	·1068	0. 15	·01490	1. 40	47 ·0	48 ·5
3. 30	21. 56. 20	3. 34	·1069	2. 4	·01440	3. 40	49 ·0	50 ·0
	***	4. 0	·1063	3. 36	·01200	9. 40	50 ·0	50 ·5
4. 50	55. 50	4. 34	·1069	5. 35	·00830	21. 40	49 ·0	51 ·0
5. 19	59. 15	4. 54	·1064	5. 54	·00790			
6. 8	58. 0	5. 9	·1068	6. 0	·00810			
6. 24	56. 0		***	8. 9	{·00800 ·00930			
6. 46	59. 45	6. 51	·1054					
7. 10	56. 20	7. 7	·1045	10. 44	·00860			
7. 34	57. 15	7. 39	·1060	12. 6	·00830			
7. 53	53. 30	7. 55	·1052	12. 45	·00800			
8. 8	54. 0		***	12. 57	{·00770 ·00790			
8. 30	52. 0	9. 8	·1059					
8. 48	52. 55	9. 30	·1066	19. 15	·00780			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Nov.30		Nov.30		Nov.30				
h m	° ′ ″	h m		h m		h m		
9. 9	21. 54. 5	10. 40	·1066	21. 45	·00800			
9. 20	55. 55	11. 3	·1062	23. 32	·00870			
10. 7	51. 30	11. 30	·1073					
10. 34	52. 20	12. 22	·1076					
10. 50	51. 20	12. 55	·1068					
11. 34	55. 15	16. 0	·1072					
	***	19. 8	·1084					
14. 0	58. 0	21. 0	·1080					
14. 55	56. 35	22. 30	·1081					
15. 25	58. 5	23. 59	·1074					
16. 1	57. 10							
16. 36	57. 30							
16. 45	59. 0							
	***							
17. 35	58. 0							
19. 0	57. 35							
	***							
20. 14	59. 5							
20. 35	57. 35							
21. 19	58. 30							
22. 2	57. 50							
23. 25	59. 55							
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 0	22. 0. 0	0. 0	·1073	0. 0	·00890	1. 40	50 ·0	51 ·0
0. 48	0. 40	2. 30	·1056	1. 21	·00910	3. 40	53 ·0	53 ·5
1. 10	2. 0	3. 18	·1038	2. 30	·00880	9. 40	50 ·0	51 ·0
1. 24	1. 0	5. 30	·1051	3. 11	{·00870 ·00870	21. 40	45 ·0	46 ·0
2. 32	0. 55		***					
3. 1	3. 0	5. 46	·1042	4. 17	·00860			
3. 15	6. 30	6. 4	·1025	4. 28	·00890			
3. 21	5. 0	6. 43	·1057					
3. 31	5. 30	6. 52	·1048	7. 0	·00850			
3. 45	5. 0	7. 15	·1060	8. 1	·00880			
4. 3	7. 0	7. 51	·1037	10. 15	·00900			
4. 14	6. 45	8. 50	·1051	10. 38	·00880			
4. 30	22. 8. 55	9. 15	·1078	11. 3	·00900			
5. 5	21. 55. 30	9. 35	·1076	11. 46	·00960			
5. 37	22. 0. 25	9. 45	·1099	12. 41	·01020			
6. 15	21. 48. 15	10. 0	·1093	13. 2	·01000			
6. 34	52. 20	10. 10	·1069	13. 20	·01050			
6. 45	49. 15	11. 15	·1040	14. 48	·01220			
6. 57	57. 5	12. 35	·1064	16. 57	·01460			
7. 4	49. 55	12. 52	·1094	17. 5	·01430			
7. 30	21. 54. 20	13. 15	·1071	23. 30	·01480			
7. 40	22. 0. 0	13. 25	·1075	23. 51	·01480			
7. 53	21. 59. 30	14. 21	·1066					
8. 8	56. 30	15. 8	·1078					
8. 20	58. 0	15. 40	·1076					
	***	16. 3	·1064					
9. 0	55. 30	17. 0	·1089					
9. 16	50. 0	17. 46	·1076					
9. 38	49. 40	18. 22	·1086					
9. 54	45. 20	18. 46	·1083					
10. 20	55. 30	19. 23	·1060					
10. 36	49. 0	20. 22	·1078					
10. 47	48. 30	20. 53	·1080					
11. 15	42. 0	23. 0	·1068					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 1		Dec. 1						
h m	° ′ ″	h m		h m		h m	°	°
11. 50	21. 54. 25	23. 59	·1054					
12. 0	21. 56. 20							
12. 30	22. 2. 0							
13. 23	21. 49. 25							
	***							
14. 20	57. 0							
14. 35	59. 55							
	***							
15. 37	21. 58. 0							
16. 5	22. 7. 0							
16. 13	6. 50							
16. 31	8. 55							
17. 9	2. 0							
18. 0:	9. 50							
19. 54	4. 45							
19. 10	5. 0							
19. 39	2. 5							
20. 5	22. 5. 40							
	***							
21. 22	21. 57. 0							
	***							
22. 30:	21. 58. 0							
23. 4	22. 2. 50							
23. 35	0. 30							
23. 45	1. 35							
23. 55	1. 5							
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 0	22. 1. 0	0. 0	·1054	0. 30	·01420	1. 40	47 ·0	48 ·0
	***	0. 33	·1062			1. 45	48 ·0	50 ·0
1. 7	22. 2. 30			1. 51	·01420	9. 40	49 ·0	50 ·0
	***	1. 40	·1064	2. 15	·01420	23. 16	47 ·0	48 ·0
1. 56	21. 56. 15		***		***			
2. 23	22. 1. 40	2. 0	·1058	4. 51	·01040			
2. 33	1. 0		***	6. 55	·00820			
2. 45	0. 15	2. 50	·1041	7. 35	·00800			
3. 0	22. 2. 5		***	7. 43	·00780			
3. 13	21. 55. 30	3. 25	·1054	8. 1	·00800			
3. 25	57. 55		***	8. 26	·00740			
3. 45	21. 56. 25	3. 50	·1052	8. 45	·00750			
4. 1	22. 2. 50		***	11. 30	·00810			
4. 18	22. 0. 0	4. 2	·1064	12. 15	·00800			
4. 35	21. 51. 30		***	15. 37	·00870			
4. 45	52. 0	4. 30	·1042	18. 47	·01040			
5. 10	41. 55	4. 46	·1049	20. 24	·01030			
6. 30	58. 0	5. 5	·1050	23. 15	·00940			
7. 0	51. 0	5. 32	·1062					
7. 15	53. 25		***					
7. 23	53. 15	6. 0	·1054					
7. 31	56. 0		***					
7. 51	43. 0	6. 40	·1062					
8. 20	58. 0		***					
8. 37	46. 15	7. 43	·1044					
	***	8. 6	·1113					
9. 36	52. 30	8. 30	·1064					
9. 53	51. 50	9. 0	·1082					
	***	9. 46	·1062					
10. 25	53. 0	10. 15	·1076					
Dec. 2		Dec. 2						
10. 33	21. 57. 0	11. 25	·1066					
11. 10	53. 50	12. 1	·1070					
11. 35	57. 0	12. 30	·1064					
11. 55	55. 30	12. 50	·1080					
12. 6	58. 40	13. 5	·1074					
	***	14. 19	·1073					
12. 31	59. 0	17. 45	·1087					
	***	20. 30	·1064					
13. 20	51. 30	22. 20	·1070					
14. 30	21. 59. 25	23. 59	·1074					
16. 0	22. 1. 0							
16. 23	21. 54. 10							
17. 35	58. 15							
	***							
19. 55	59. 0							
	***							
22. 6	21. 57. 0							
	***							
23. 28	22. 0. 0							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	22. 0. 30	0. 0	·1074	0. 0	·00890	9. 40	50 ·5	52 ·0
	***	1. 15	·1070	2. 14	·00760	21. 40	49 ·0	50 ·0
1. 8	22. 1. 30	3. 55	·1074	2. 32	·00780			
2. 33	21. 59. 0		***	4. 45	·00820			
4. 20	59. 0	4. 51	·1064	11. 16	·00740			
4. 51	55. 20	5. 23:	·1072	12. 0	·00800			
5. 32	58. 50	5. 46	·1070	14. 26	·00770			
6. 0	56. 0	6. 15:	·1074	17. 0	·00780			
6. 25	58. 0	8. 30	·1078	20. 36	·00820			
7. 4	54. 15	9. 30	·1072	23. 21	·00840			
7. 37	56. 45	9. 59	·1070	23. 59	·00890			
8. 24	55. 30		***					
9. 0	57. 0	12. 25	·1076					
10. 4	54. 15	12. 50	·1082					
10. 15	56. 0	14. 0	·1076					
	***	14. 41	·1083					
13. 7	56. 0	15. 33:	·1072					
13. 22	57. 15	16. 39	·1082					
13. 47	55. 10	20. 0	·1082					
14. 11	21. 58. 20	21. 30	·1076					
14. 24	22. 2. 55	23. 59	·1074					
15. 3	21. 58. 0							
	***							
15. 37	59. 30							
	***							
16. 50	59. 0							
17. 19:	57. 0							
17. 39	57. 30							
18. 50	57. 0							
20. 16	58. 0							
	***							
21. 33	21. 56. 35							
	***							
23. 24	22. 0. 0							
23. 34	1. 45							
23. 59	1. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. increased for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. increased for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
h m	° ′ ″	h m		h m		h m	°	°
0. 13	22. 2. 0	0. 0	·1074	1. 0	·00850	1. 40	51 ·0	52 ·0
0. 31	22. 2. 0	2. 45	·1073	1. 51	·00850	3. 40	53 ·0	54 ·0
1. 16	21. 58. 20	3. 55	·1072			9. 40	53 ·0	53 ·5
1. 33	59. 40			3. 21	·00900	21. 40	48 ·0	50 ·5
	***	9. 7	·1078	3. 26	·01010			
2. 36	57. 30			4. 28	·00930			
3. 40	58. 0	9. 40	·1075	7. 23	·00880			
3. 49	59. 0	10. 0	·1082	10. 15	·00970			
4. 50	21. 57. 15	11. 36	·1079	10. 33	·00940			
5. 39	22. 0. 0	12. 20	·1076	10. 38	·01010			
5. 56	21. 58. 0	13. 12	·1084	10. 44	·00990			
6. 14	59. 0	13. 32	·1080	12. 39	·01151			
6. 51	56. 5	14. 0	·1092	13. 16	·01160			
8. 5	56. 30	14. 56	·1084	13. 6	·01370			
8. 34	53. 55	17. 15	·1082	18. 9	·01400			
	***	20. 30	·1087	20. 38	·01490			
9. 7	55. 30		***	23. 0	·01480			
10. 35	55. 35	21. 37	·1083	23. 53	·01460			
	***		***					
11. 0	54. 25	21. 55	·1074					
12. 35	57. 10		***					
13. 3	55. 30	22. 30	·1074					
13. 17	56. 35		***					
13. 34	56. 0	22. 37	·1082					
14. 11	57. 45	22. 51	·1076					
14. 44	56. 0	23. 30	·1079					
15. 15	59. 15	23. 59	·1080					
15. 37	58. 0							
15. 46	59. 5							
16. 15	57. 30							
16. 38	59. 5							
17. 0	57. 55							
21. 14	56. 30							
	***							
23. 45	57. 45							
23. 59	58. 30							
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
0. 0	21. 58. 35	0. 0	·1081	0. 45	·01430	1. 40	50 ·5	51 ·0
5. 0	56. 50	1. 19	·1079	2. 28	·01330	3. 40	53 ·5	54 ·0
9. 10	56. 45	1. 55	·1066	3. 42	·01180	9. 40	51 ·0	51 ·2
9. 55	43. 35	3. 0	·1073	4. 15	·01110	21. 40	44 ·0	46 ·0
10. 10	49. 0	5. 27	·1073	5. 53	·00900			
12. 8	53. 0	6. 0	·1066		·00930			
12. 35	57. 30	7. 0	·1076	8. 15	·00840			
13. 7	21. 56. 0	8. 50	·1076	9. 16	·00860			
	***	9. 39	·1063	11. 35	·01060			
14. 40	22. 2. 0	10. 0	·1060	12. 30	·01130			
	***	10. 10	·1064	16. 11	·01560			
15. 31	21. 57. 5	11. 27	·1070	16. 17	·01540			
15. 54	58. 5	11. 45	·1068	21. 40	·01500			
	***	12. 0	·1074	22. 19	·01490			
16. 46	57. 0	15. 20	·1086	22. 59	·01510			
17. 37	59. 0	16. 0	·1082	23. 59	·01530			
18. 8	57. 45	18. 40	·1094					
21. 45	58. 0	22. 3	·1090					
22. 14	21. 56. 0	23. 0	·1083					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. increased for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. increased for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 5		Dec. 5						
h m	° ′ ″	h m				h m	°	°
23. 47	22. 1. 55	23. 59	·1082					
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 2	22. 1. 0	0. 0	·1082	1. 15	·01520	1. 40	46 ·0	47 ·0
5. 46	21. 56. 0	3. 6	·1076	2. 45	·01450	3. 40	48 ·0	49 ·5
11. 0	56. 30	5. 45	·1082	4. 17	·01210	9. 40	48 ·5	51 ·5
11. 16	55. 30	12. 53	·1080		(†)	21. 40	42 ·5	46 ·0
11. 34	55. 0	19. 20	·1082	11. 0	·00750			
12. 55	58. 0	21. 0	·1092	13. 20	·00840			
13. 33	55. 45	22. 45	·1086	18. 13	·01090			
15. 30	57. 55	23. 59	·1088	19. 13	·01170			
23. 4	21. 56. 55			20. 44	·01270			
23. 49	22. 0. 15			23. 18	·01470			
				23. 59	·01490			
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	22. 0. 0	0. 0	·1087	0. 30	·01500	1. 40	45 ·5	47 ·0
2. 6	21. 59. 0		***	2. 6	·01420	3. 40	47 ·0	49 ·0
5. 0	56. 0	4. 15	·1080	3. 15	·01280	9. 40	46 ·0	47 ·5
6. 26	55. 30	12. 30	·1086	4. 39	·01070	21. 40	41 ·0	44 ·0
8. 40	56. 35	18. 30	·1104	7. 0	·00840			
13. 40	57. 30	22. 3	·1106	9. 24	·00800			
14. 14	59. 0	23. 0	·1096	11. 2	·00940			
17. 35	59. 25			12. 10	·01030			
18. 45	57. 20			13. 30	·01200			
20. 40	56. 55			15. 42	·01460			
23. 59	59. 0				·01400			
				22. 59	·01410			
				23. 59	·01380			
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	21. 59. 15	1. 0	·1105	1. 15	·01240	1. 40	44 ·0	47 ·0
	***	1. 42	·1104	2. 36	·01040	3. 40	50 ·0	51 ·5
1. 37	59. 25	2. 55	·1094	3. 56	·00780	9. 40	51 ·5	52 ·5
5. 0	57. 0	7. 0	·1092	4. 7	·00810	21. 40	50 ·0	52 ·0
5. 55	59. 20	8. 48	·1087	4. 56	·00800			
6. 17	58. 0	9. 14	·1081	11. 1	·00830			
7. 8	58. 25	9. 55	·1089	11. 51	·00820			
	***	10. 40	·1092	12. 11	·00830			
9. 40	52. 15	11. 37	·1089	13. 15	·00820			
10. 0	54. 0	11. 55	·1080	14. 15	·00820			
11. 5	53. 30	13. 0	·1085	14. 30	·00800			
11. 21	55. 20	13. 46	·1080	14. 51	·00800			
11. 53	52. 5	14. 8	·1084	15. 16	·00790			
12. 51	56. 0	14. 24	·1098	20. 13	·00840			
	***	14. 46	·1089	23. 59	·01030			
13. 30	53. 20	15. 12	·1090					
	***	15. 48	·1088					
14. 22	58. 25	16. 52	·1088					
14. 40	55. 40	17. 31	·1096					
15. 0	58. 55	19. 20	·1092					
15. 32	53. 0	19. 44	·1088					
16. 17	21. 57. 10	20. 1	·1094					
	***	20. 11	·1088					
18. 55	22. 0. 35	20. 31	·1096					
19. 8	21. 58. 30	20. 50	·1090					
	***	23. 59	·1080					
20. 6	22. 0. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 8								
h m	° ′ ″	h m		h m		h m	°	
20. 10	21. 58. 0							
20. 22	58. 5							
20. 30	59. 40							
21. 0	58. 30							
21. 40	59. 0							
22. 30	57. 35							
23. 0	21. 57. 50							
23. 59	22. 0. 30							
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 10	22. 1. 0	0. 0	·1080	1. 0	·01100	1. 40	51 ·0	52 ·0
0. 45	22. 0. 30	2. 0	·1085	3. 28	·01150	3. 40	51 ·5	52 ·5
	***	4. 53	·1080	7. 9	·01060	9. 40	49 ·0	51 ·0
4. 46	21. 57. 0	6. 23	·1089	9. 15	·01170	23. 30	42 ·0	44 ·0
5. 30	58. 20	9. 34	·1089	10. 46	·01290			
5. 59	57. 15	9. 59	·1084	11. 9	·01300			
6. 30	58. 30	10. 36	·1087	14. 7	·01520			
9. 10	58. 0	10. 48	·1100	18. 30	·01480			
9. 45	52. 40	11. 12	·1092	23. 26	·01440			
10. 13	56. 35	11. 31	·1098					
10. 44	57. 0	11. 45	·1091					
10. 53	59. 5	19. 30	·1111					
11. 20	56. 30	23. 30	·1100					
11. 35	58. 0							
11. 53	21. 57. 0							
13. 30	22. 0. 0							
22. 2	21. 59. 0							
22. 45	57. 15							
23. 25	21. 59. 5							
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
1. 0	22. 0. 0	1. 0	·1104	1. 0	·01450	10. 50	43 ·0	45 ·0
4. 35	21. 57. 0	1. 45	·1098	2. 48	·01440	21. 40	37 ·0	40 ·5
6. 15	22. 1. 30	4. 30	·1104	5. 22	·01280			
7. 25	21. 57. 30	10. 0	·1100	7. 53	·01030			
8. 0	56. 0	14. 45	·1112	9. 57	·01020			
8. 55	57. 10	16. 30	·1112	12. 30	·01070			
9. 18	56. 0	17. 50	·1120	13. 15	·01080			
9. 27	57. 30	21. 0	·1116	15. 2	·01190			
9. 45	56. 0	21. 45	·1110	16. 30	·01320			
	***	23. 59	·1105					
10. 50	56. 55			17. 24	·01450			
13. 31	57. 0				·01380			
14. 0	59. 0			23. 1	·01460			
14. 12	57. 40			23. 45	·01480			
	***			23. 59	·01480			
16. 2	21. 58. 0							
	***							
18. 20	22. 1. 0							
21. 5	21. 59. 25							
21. 37	57. 45							
	***							
23. 0	21. 58. 0							
23. 45	22. 0. 25							
23. 59	21. 59. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 11		Dec. 11		Dec. 11		Dec. 11		
h m	° ′ ″	h m		h m		h m	°	
0. 0	21. 59. 20	0. 0	·1105	1. 30	·01350	1. 40	41 ·0	43 ·5
3. 25	57. 15	4. 0	·1102	3. 33	·01090	3. 40	43 ·5	44 ·5
6. 20	56. 25	7. 14	·1105	5. 37	·00720	9. 40	45 ·0	46 ·0
9. 39	55. 45	10. 2	·1100	5. 43	·00740	21. 40	44 ·0	45 ·0
9. 54	53. 30	10. 23	·1107	9. 41	·00690			
10. 10	55. 0	10. 50	·1100	9. 49	·00800			
10. 28	56. 30	12. 41	·1101		(†)			
11. 19	56. 0		(†)	21. 40	·00786*			
13. 8	57. 0	21. 36	·1113					
	(†)	22. 30	·1104					
21. 40	58. 10	23. 59	·1104					
22. 10	58. 0							
22. 18	56. 55							
23. 5	59. 55							
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
0. 0	21. 59. 50	0. 0	·1104	0. 0	·00920	1. 40	45 ·5	47 ·0
2. 47	56. 20	1. 0	·1094	1. 1	·00910	3. 40	48 ·0	49 ·0
11. 19	56. 35	4. 37	·1089	3. 45	·00820	9. 40	49 ·0	49 ·5
12. 16	55. 10	4. 50	·1094		·01200	21. 40	46 ·5	48 ·0
14. 45	56. 10	6. 30	·1090	5. 23	·00930			
18. 45	56. 0	9. 0	·1096	7. 10	·00840			
20. 47	58. 20	12. 0	·1090	9. 11	·00840			
22. 6	57. 0	17. 45	·1103	11. 14	·00920			
23. 20	58. 0	19. 58	·1098	12. 2	·00920			
		21. 15	·1102	13. 18	·00990			
		23. 59	·1092	14. 30	·01020			
				19. 26	·00970			
				21. 13	·00970			
				23. 10	·01020			
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 0	21. 59. 25	0. 0	·1092	0. 0	·01000	1. 40	48 ·0	49 ·0
1. 0	22. 0. 0	2. 55	·1098	1. 28	·00990	3. 40	49 ·0	50 ·0
1. 35	22. 1. 20	4. 15	·1084	3. 28	·00860	9. 40	52 ·5	52 ·5
2. 8	21. 59. 30			3. 33	·00900	21. 40	53 ·5	54 ·0
3. 21	58. 30	6. 8	·1093	3. 50	·00920			
4. 38	56. 35	7. 28	·1054		·01090			
	***	8. 23	·1081	6. 57	·00930			
5. 30	57. 30	11. 25	·1083	7. 15	·00920			
6. 23	59. 20			7. 31	·00950			
6. 46	59. 0	15. 14	·1076	10. 30	·00960			
7. 1	55. 0	18. 0	·1088	12. 0	·00940			
7. 23	54. 0	23. 59	·1082	23. 31	·00900			
8. 6	58. 55							
8. 35	56. 35							
10. 38	55. 30							
12. 0	56. 55							
14. 13	55. 30							
	***							
14. 53	57. 10							
	***							
15. 16	53. 0							
15. 40	55. 35							
	***							
16. 44	55. 15							
18. 6	55. 30							
22. 0	21. 57. 5							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The symbol ⌇ attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force.	Vertical Force.	Readings of Thermometers.	
Dec. 13						
h m	° ′ ″	h m			h m	°
23. 45	22. 0. 35					
23. 59	1. 25					
Dec. 14		Dec. 14		Dec. 14		Dec. 14
0. 0	22. 1. 20	0. 0	·1082	0. 0	·00960	1. 40 55 ·0 56 ·0
	***		***	3. 38	·01000	3. 40 57 ·0 57 ·0
3. 15	22. 2. 0	4. 23	·1076		·01310	9. 40 57 ·0 58 ·0
5. 0	21. 59. 30	6. 0	·1074	6. 8	·01110	21. 40 55 ·0 55 ·0
5. 30	22. 0. 30	6. 15	·1084	11. 30	·01050	
6. 15	21. 59. 25	7. 0	·1070	12. 0	·01050	
6. 30	22. 0. 35	8. 0	·1080	19. 23	·01160	
7. 15	21. 53. 35	8. 25	·1074	22. 45	·01250	
7. 49	54. 30	10. 38	·1077	23. 59	·01200	
8. 18	57. 30	12. 30	·1075			
10. 33	56. 0	17. 0	·1080			
	***	22. 8	·1080			
14. 57	21. 58. 20	23. 59	·1071			
15. 14	22. 0. 0					
16. 23	21. 57. 5					
23. 10	56. 25					
23. 59	57. 30					
Dec. 15		Dec. 15		Dec. 15		Dec. 15
0. 0	21. 57. 20	0. 0	·1071	0. 30	·01290	1. 40 57 ·0 57 ·0
4. 51	55. 0	0. 45	·1078	2. 29	·01220	3. 40 57 ·0 59 ·0
10. 23	55. 10	4. 0	·1071		·01430	9. 40 57 ·0 58 ·0
13. 45	57. 0	12. 10	·1077	5. 15	·01360	21. 40 55 ·0 55 ·0
14. 40	55. 25	12. 34	·1070	8. 28	·01400	
15. 35	56. 50	12. 44	·1085	10. 24	·01420	
	***	13. 1	·1080	12. 15	·01480	
17. 46	55. 55	14. 23	·1080	13. 0	·01490	
18. 20	57. 25	18. 9	·1088	15. 53	·01580	
20. 5	55. 0	18. 40	·1086	19. 52	·01720	
	***	20. 52	·1084	21. 21	·01740	
22. 0	57. 30		***	21. 29	·01710	
22. 6	56. 30	21. 16	·1094	23. 59	·01690	
	***	22. 50	·1083			
23. 59	58. 25	23. 16	·1092			
		23. 34	·1082			
		23. 59	·1085			
Dec. 16		Dec. 16		Dec. 16		Dec. 16
0. 0	21. 58. 20	0. 0	·1084	1. 0	·01700	1. 40 54 ·0 55 ·0
	***	2. 0	·1082	3. 39	·01720	3. 40 55 ·0 55 ·0
3. 5	56. 0	2. 23	·1074	6. 37	·01670	9. 40 53 ·0 54 ·0
5. 59	55. 0		***	7. 0	·01700	23. 40 41 ·0 42 ·2
7. 7	56. 0	4. 5	·1080	12. 15	·01670	
8. 0	57. 25	5. 38	·1077	13. 16	·01650	
9. 16	55. 55	6. 30	·1084	18. 55	·01570	
14. 0	58. 30		***	23. 59	·01570	
16. 55	59. 5	8. 25	·1080			
17. 35	57. 0	14. 30	·1095			
18. 6	59. 0	15. 8	·1094			
18. 27	58. 10		***			
20. 45	57. 0	17. 30	·1102			
22. 55	57. 0	18. 40	·1097			
23. 59	58. 0	22. 15	·1102			

Göttingen Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force.	Vertical Force.	Readings of Thermometers.	
h m	° ′ ″	Dec. 16 h m			h m	°
		23. 15	·1097			
		23. 59	·1100			
Dec. 17		Dec. 17		Dec. 17		Dec. 17
0. 0	21. 58. 0	0. 0	·1100	4. 19	·01550	11. 16 47 ·0 47 ·0
	(†)	4. 14	·1100	8. 51	·01470	21. 40 46 ·0 47 ·5
4. 30	57. 0	4. 56	·1096	11. 45	·01500	
8. 34	56. 0	8. 53	·1102	12. 16	·01520	
8. 46	55. 10	9. 32	·1091	14. 0	·01540	
8. 55	57. 0	10. 0	·1098	15. 23	·01580	
9. 8	55. 20	10. 46	·1096		·01530	
10. 0	56. 0	11. 15	·1110	19. 6	·01550	
10. 24	52. 25	11. 59	·1092	21. 37	·01500	
10. 52	55. 15		***	23. 22	·01460	
11. 10	55. 10	12. 59	·1102	23. 59	·01340	
11. 45	50. 5	13. 35	·1089			
12. 30	55. 0	14. 0	·1095			
13. 10	51. 15	14. 8	·1089			
13. 34	51. 20	14. 30	·1097			
14. 35	50. 0	15. 1	·1095			
15. 0	21. 56. 55	15. 30	·1087			
15. 45	22. 1. 30	16. 15	·1100			
	***	17. 0	·1096			
16. 37	21. 55. 0	21. 39	·1096			
	***	22. 5	·1079			
17. 15	57. 25	22. 20	·1080			
18. 5	55. 20		***			
18. 34	58. 0	23. 30	·1097			
18. 46	56. 30	23. 59	·1094			
21. 10	56. 20					
21. 23	53. 40					
22. 15	58. 30					
	***					
23. 59	58. 0					
Dec. 18		Dec. 18		Dec. 18		Dec. 18
0. 0	21. 58. 0	0. 23	·1099	1. 15	·01200	1. 40 49 ·0 49 ·0
0. 26	22. 1. 25	1. 35	·1104	2. 30	·01160	3. 40 48 ·0 49 ·5
	***	2. 0	·1093	5. 15	·00930	9. 40 47 ·0 47 ·5
1. 16	21. 59. 30	2. 33	·1097	7. 24	·00960	21. 40 40 ·0 43 ·0
1. 25	22. 1. 25	2. 52	·1090	12. 45	·01450	
1. 49	21. 58. 55		**	13. 15	·01510	
2. 15	22. 1. 0	7. 41	·1088	13. 35	·01540	
2. 40	21. 59. 0	8. 0	·1070		·01430	
	***	8. 40	·1080	14. 53	·01470	
5. 2	21. 58. 0	9. 15	·1088	23. 27	·01500	
6. 10	22. 0. 0	10. 0	·1095			
7. 45	21. 58. 0	10. 14	·1091			
8. 8	52. 20	10. 35	·1096			
8. 30	56. 0	11. 14	·1091			
8. 55	55. 20	11. 46	·1096			
9. 50	58. 30	13. 6	·1091			
10. 18	55. 0		***			
11. 45	59. 0	14. 10	·1100			
	***	14. 35	·1108			
12. 55	57. 20	15. 11	·1097			
13. 13	59. 30	15. 45	·1095			
13. 45	57. 0	19. 22	·1102			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. C. to H. F. Magnet.	C. to V. F. Magnet.
Dec. 18		Dec. 18						
h m	° ′ ″	h m		h m		h m	°	°
14. 13	21. 59. 35	23. 23	·1099					
15. 0	56. 35	23. 59	·1100					
15. 34	58. 55							
16. 10	56. 30							
21. 5	56. 10							
23. 23	59. 0							
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 0	21. 59. 30	0. 0	·1100	0. 0	·01400	1. 40	43 ·0 44 ·0	
	***	4. 15	·1094	1. 15	·01480	3. 40	46 ·0 47 ·0	
1. 38	58. 35	7. 30	·1100	2. 30	·01370	9. 40	44 ·0 45 ·0	
2. 3	59. 30	7. 45	·1093	6. 2	·00970	21. 40	45 ·0 46 ·0	
2. 55	57. 35	8. 30	·1100	7. 9	·00890			
4. 38	57. 0	9. 0	·1090	11. 6	·00900			
7. 30	56. 30	10. 0	·1095	11. 49	·00840			
7. 47	54. 30	10. 35	·1097	12. 41	·00950			
9. 54	57. 25	12. 14	·1094	14. 30	·00912			
10. 23	56. 0	12. 40	·1103	15. 50	·00880			
11. 6	57. 0	13. 36	·1097	19. 36	·00968			
11. 55	56. 0	15. 25	·1101	19. 41	·00961			
12. 15	56. 30	18. 2	·1096	21. 55	·00700			
12. 27	55. 50	20. 0	·1103	23. 15	·00740			
12. 55	58. 0	22. 20	·1091	23. 59	·00730			
13. 22	56. 20	23. 59	·1090					
	***							
18. 40	56. 0							
22. 6	56. 0							
	***							
23. 32	59. 40							
23. 59	59. 25							
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 0	21. 59. 30	0. 0	·1090	1. 0	·00750	1. 40	49 ·0 50 ·0	
	***	0. 21	·1092	5. 6	·00840	3. 40	49 ·0 50 ·0	
0. 50	22. 0. 25	3. 15	·1086	6. 31	·00800	9. 40	49 ·0 51 ·0	
1. 36	21. 58. 0	3. 55	·1068	8. 45	·00770	21. 40	42 ·0 43 ·0	
	***	4. 40	·1066	11. 50	·00870			
3. 39	22. 1. 0	5. 10	·1078	11. 59	·00880			
4. 13	21. 58. 15	10. 30	·1090	12. 12	·00850			
5. 49	22. 0. 30	10. 45	·1089	13. 16	·00950			
6. 30	21. 58. 25	11. 30	·1101	17. 6	·01260			
7. 15	59. 0	11. 52	·1091	19. 41	·01540			
10. 55	55. 20	13. 0	·1099	19. 45	·01520			
11. 19	50. 30	13 27	·1090	22. 45	·01440			
12. 6	58. 0	20. 44	·1104	23. 59	·01530			
12. 27	54. 0	22. 30	·1098					
12. 51	56. 0							
13. 45	56. 25							
14. 16	59. 0							
15. 7	56. 30							
16. 3	59. 35							
21. 25	59. 0							
21. 46	57. 10							
23. 59	57. 45							
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
0. 0	21. 57. 50	0. 15	·1095	0. 30	·01510	1. 40	45 ·0 45 ·0	
1. 15	59. 35	1. 14	·1097	2. 8	·01460	3. 40	45 ·0 47 ·0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. C. to H. F. Magnet.	C. to V. F. Magnet.
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 58. 0	1. 55	·1086	3. 35	·01340	9. 40	49 ·0 49 ·0	
		2. 25	·1096	8. 28	·00780	21. 40	52 ·0 53 ·0	
5. 5	58. 20	4. 42	·1093	8. 30	·00790			
5. 40	56. 25	5. 30	·1083	12. 15	·00810			
9. 24	55. 0	6. 3	·1083	13. 8	·00820			
9. 32	53. 25	6. 45	·1097	19. 49	·00850			
10. 11	55. 30	8. 15	·1093	23. 6	·00860			
10. 24	54. 25	11. 15	·1090	23. 59	·00880			
10. 45	56. 25	11. 30	·1093					
14. 36	58. 0	11. 55	·1090					
16. 10	56. 30	19. 35	·1094					
17. 16	57. 55	23. 59	·1084					
17. 37	56. 20							
18. 0	57. 0							
22. 30	57. 0							
23. 59	58. 35							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
0. 0	21. 58. 40	0. 0	·1084	1. 30	·00940	1. 40	54 ·0 54 ·0	
0. 47	22. 0. 20	4. 5	·1081	4. 12	·00980	3. 40	55 ·0 56 ·0	
1. 9	21. 58. 0			9. 40	·00920	9. 40	55 ·0 56 ·0	
3. 24	57. 25	10. 30	·1082	12. 38	{·00900	21. 40	52 ·0 52 ·0	
6. 15	56. 30	11. 5	·1089		{·00930			
9. 22	54. 40	11. 40	·1078	13. 16	·00930			
10. 16	55. 55	12. 55	·1072	16. 30	·00920			
10. 36	51. 0			18. 36	·00970			
12. 21	56. 15	16. 25	·1084	21. 30	·01160			
		18. 44	·1092	23. 54	·01400			
13. 41	54. 25	19. 20	·1088					
		21. 30	·1092					
15. 4	57. 45	23. 59	·1083					
16. 0	55. 0							
17. 46	58. 0							
21. 45	58. 0							
	***							
23. 17	59. 30							
23. 59	59. 30							
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 0	21. 59. 30	0. 0	·1083	0. 16	·01430	1. 40	52 ·0 53 ·0	
2. 0	59. 5			1. 57	·01530	3. 40	53 ·0 54 ·0	
4. 45	56. 25	3. 0	·1086	3. 39	·01500	9. 40	52 ·0 52 ·0	
8. 54	57. 15	5. 55	·1080	6. 22	·01340	23. 20	45 ·0 46 ·0	
9. 35	57. 0	10. 8	·1084	7. 17	·01330			
9. 51	55. 30	10. 35	·1080	11. 26	·01380			
10. 25	57. 20	11. 0	·1085	12. 56	·01420			
11. 6	57. 30	11. 10	·1082	14. 32	·01490			
11. 37	56. 5	11. 51	·1090	17. 41	·01680			
11. 55	57. 30			18. 44	·01640			
12. 15	56. 30	12. 45	·1083	23. 50	·01610			
12. 30	57. 20	14. 15	·1086					
12. 46	56. 45	18. 0	·1096					
13. 4	59. 30	20. 35	·1098					
13. 22	57. 30	22. 45	·1094					
21. 10	58. 30	23. 59	·1095					
23. 59	59. 55							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
h m	° ′ ″	h m		h m		h m		
0. 0	21. 59. 55	0. 0	·1095	0. 30	·00880	10. 5	51 ·0	52 ·0
3. 25	56. 20	1. 0	·1096	7. 37	·00900	23. 0	50 ·0	51 ·0
6. 13	57. 25	2. 23	·1090	10. 17	·01120			
8. 2	57. 0	8. 30	·1086	11. 56	·01210			
8. 34	55. 30	14. 25	·1090	13. 16	·01240			
9. 38	56. 10	19. 50	·1096	14. 15	·01370			
9. 58	53. 30	21. 37	·1087	16. 45	·01640			
10. 23	56. 0	23. 59	·1088	16. 55	·01610			
11. 16	56. 55			23. 30	·01600			
13. 46	55. 0							
15. 13	56. 20							
20. 0	57. 0							
22. 10	21. 58. 25							
23. 59	22. 1. 0							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	22. 1. 0	0. 0	·1088	1. 10	·01630	10. 5	50 ·0	51 ·0
1. 39	22. 1. 5	2. 15	·1088	3. 12	·01620	21. 40	46 ·0	47 ·0
3. 20	21. 58. 51	4. 15	·1086	4. 50	·01450			
4. 25	57. 30	10. 45	·1090	5. 28	·01370			
9. 0	58. 25	13. 0	·1089	7. 40	·01090			
10. 20	57. 55	17. 16	·1098	9. 37	·00940			
15. 10	59. 30	19. 25	·1100	10. 30	·00920			
17. 55	59. 0	22. 0	·1087	12. 45	·00920			
19. 45	58. 0	23. 59	·1086	13. 0	·00910			
22. 40	58. 0			13. 44	·00920			
23. 10	59. 55			16. 46	·00990			
23. 59	59. 30			18. 39	·00950			
				20. 54	·00830			
				20. 57	·00850			
				23. 59	·00880			
		Dec. 26		Dec. 26		Dec. 26		
		0. 0	·1086	0. 0	·01600	1. 40	48 ·0	49 ·0
		3. 45	·1086	0. 46	·01610	3. 40	50 ·0	50 ·0
		4. 25	·1089	1. 46	·01540	9. 40	48 ·0	49 ·0
		5. 0	·1086	2. 27	·01470	21. 40	44 ·5	46 ·0
		8. 0	·1090	4. 22	·01160			
		10. 45	·1092	5. 23	·01000			
		12. 55	·1095	7. 2	·00820			
		20. 14	·1103	8. 45	·00780			
		22. 6	·1092	11. 1	·00850			
		23. 59	·1090	12. 32	·00960			
				15. 15	·01170			
				20. 51	·01390			
				22. 30	·01490			
				23. 9	·01500			
		Dec. 27		Dec. 27		Dec. 27		
		0. 0	·1090	0. 0	·01510	1. 50	46 ·0	47 ·0
		1. 8	·1090	1. 0	·01500	3. 40	48 ·0	49 ·0
			***	2. 57	·01410	9. 40	46 ·0	46 ·5
		3. 0	·1100	6. 5	·01130	21. 40	40 ·0	41 ·0
		4. 5	·1101	7. 15	·01050			
		4. 52	·1096	10. 45	·01130			
		9. 34	·1103	11. 15	·01140			
		10. 35	·1102	12. 21	·01180			
		10. 53	·1095	17. 59	·01520 ·01490			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Dec. 27		Dec. 27				
		11. 30	·1100	23.	·01510			
		12. 30	·1096					
		13. 0	·1098					
		13. 30	·1095					
		14. 0	·1098					
		19. 52	·1103					
		17. 55	·1106					
		18. 26	·1100					
		18. 40	·1108					
		20. 23	·1112					
		21. 40	·1104					
		23. 59	·1092					
		Dec. 28		Dec. 28		Dec. 28		
		0. 0	·1092	0. 0	·01520	1. 43	43 ·0	44 ·0
		1. 0	·1090	2. 9	·01450	3. 40	44 ·0	44 ·5
			***	3. 45	·01340	9. 40	45 ·0	45 ·2
		1. 45	·1100	7. 6	·00920	21. 40	40 ·0	41 ·0
		2. 30	·1095	8. 49	·00850			
			***	10. 45	·00870			
		3. 40	·1099	12. 0	·00930			
		4. 50	·1089	13. 54	·01020			
		6. 0	·1090	20. 30	·01500 ·01460			
		8. 50	·1099					
		10. 0	·1096	22. 9	·01480			
		10. 37	·1088					
		11. 7	·1092					
		11. 12	·1088					
		11. 25	·1083					
		11. 52	·1102					
		12. 36	·1093					
		18. 45	·1113					
		19. 50	·1112					
		20. 53	·1103					
		21. 45	·1106					
		22. 0	·1101					
		22. 30	·1080					
		23. 5	·1082					
		23. 59	·1089					
		Dec. 29		Dec. 29		Dec. 29		
		0. 0	·1089	0. 0	·01440	2. 32	43 ·0	43 ·0
		0. 50	·1095	0. 51	·01450	3. 40	44 ·0	45 ·0
		2. 30	·1093	2. 54	·01360	9. 40	45 ·5	46 ·0
		3. 5	·1085	6. 8	·00970	21. 40	45 ·8	46 ·0
		3. 30	·1092	6. 29	·00940			
		3. 43	·1085	6. 46	·00880			
		3. 53	·1088	8. 8	·00740			
		4. 7	·1072	8. 14	·00760			
		4. 28	·1083	9. 14	·00770			
		4. 50	·1070	10. 56	·00730			
			***	11. 30	·00720			
		5. 17	·1080	15. 1	·00690			
		5. 28	·1074	15. 25	·00680			
		5. 35	·1082	23. 0	·00740			
		6. 2	·1082					
		6. 15	·1075					
		6. 32	·1104					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

From December 26 to December 29, the adjustments of the Declination Magnet were under examination.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Dec. 29 h m		h m		h m	°	°
		6. 45	·1083					
		7. 12	·1072					
		7. 25	·1081					
		7. 53	·1060					
		8. 7	·1068					
		8. 45	·1068					
		9. 5	·1082					
		9. 31	·1082					
		10. 8	·1086					
		11. 45	·1089					
		13. 35	·1088					
		15. 14	·1100					
		16. 0	·1092					
		16. 25	·1097					
		17. 2	·1096					
		17. 35	·1088					
		19. 42	·1100					
		21. 6	·1088					
		21. 40	·1090					
		22. 7	·1085					
		23. 59	·1086					
Dec. 30		Dec. 30		Dec. 30		Dec. 30		
0. 24	21. 51. 50	0. 0	·1086	0. 0	·00740	1. 40	42 ·0	43 ·5
2. 0	54. 0	2. 41	·1082	2. 7	·00830	3. 40	51 ·0	52 ·5
5. 10	50. 30	3. 0	·1073	3. 51	·00910	9. 50	51 ·7	52 ·8
5. 53	52. 20	3. 37	·1080		·01060	23. 20	47 ·0	47 ·5
6. 30	47. 45	4. 10	·1076	4. 35	·01010			
7. 0	49. 15	5. 2	·1080	8. 15	·01030			
7. 23	44. 40	5. 43	·1076	8. 46	·00980			
7. 45:	47. 0	6. 21	·1063	11. 15	·01060			
8. 6	41. 0	6. 40	·1070	11. 45	·01060			
8. 31	53. 0	7. 15	·1053	13. 23	·01100			
9. 2	40. 15	7. 24	·1062	22. 43	·01640			
9. 30	56. 20	7. 39	·1058	23. 15	·01640			
10. 30	47. 45	7. 46	·1068	23. 59	·01640			
11. 0	46. 0	7. 57	·1062					
12. 10	49. 25	8. 15	·1088					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 30 h m	° ′ ″	Dec. 30 h m		h m		h m	°	°
12. 37	21. 47. 15	8. 25	·1080					
13. 23	51. 0		***					
13. 53	46. 35	9. 5	·1085					
14. 37	48. 30	10. 50	·1074					
15. 8	47. 30	13. 15	·1088					
	***	13. 34	·1096					
16. 12	49. 30	14. 1	·109					
18. 0	49. 5	15. 40	·1089					
	(†)	19. 46	·1098					
21. 35	50. 0	21. 12	·1092					
22. 5	49. 0	21. 47	·1096					
22. 55	52. 0	22. 1	·1093					
	***	22. 6	·1096					
23. 15	58. 0	23. 59	·1093					
Dec. 31		Dec. 31		Dec. 31		Dec. 31		
0. 45	21. 53. 30	0. 0	·1093	1. 30	·01620	9. 23	49 ·0	49 ·0
	***	1. 7	·1092	2. 27	·01610	21. 0	43 ·5	45 ·0
3. 55	52. 0	3. 29	·1083	8. 0	·01190			
4. 50	49. 15	7. 45	·1086	9. 11	·01160			
9. 15	47. 10	10. 15	·1082	9. 16	·01230			
9. 25	49. 15	10. 53	·1084	12. 28	·01230			
10. 5	46. 50	11. 15	·1082	13. 30	·01210			
10. 21	47. 0	11. 39	·1087	17. 18	·01320			
10. 58	41. 0	14. 58	·1088	19. 27	·01350			
12. 0	50. 0	15. 45	·1095	21. 38	·01320			
14. 21	51. 50	17. 3	·1089	23. 59	·01210			
14. 43	50. 25	18. 45	·1095					
15. 0	52. 5	19. 35	·1091					
15. 30	58. 0	20. 35	·1095					
16. 0	49. 0	21. 40	·1090					
19. 50	55. 45	23. 15	·1086					
21. 34	49. 0	23. 59	·1085					
21. 47	51. 0							
	***							
23. 40	53. 0							
23. 59	52. 25							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1854.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 1 was used throughout the Year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1854.

Day and Approximate Hour, 1854.		Magnetic Dip.	Day and Approximate Hour, 1854.		Magnetic Dip.	Day and Approximate Hour, 1854.		Magnetic Dip.
	d h	° ′		d h	′		d h	′
January	8. 21	68. 48 ·75	April	24. 9	68. 47 ·50	August	21. 3	68. 50 ·00
	9. 3	68. 48 ·75		30. 21	68. 50 ·00		21. 9	68. 49 ·00
	9. 9	68. 50 ·00					27. 21	68. 46 ·75
	15. 21	68. 48 ·75	May	1. 3	68. 48 ·00		28. 3	68. 48 ·75
	16. 3	68. 49 ·00		1. 9	68. 48 ·00		28. 9	68. 48 ·00
	16. 9	68. 50 ·00		7. 21	68. 46 ·75			
	22. 21	68. 48 ·00		8. 3	68. 45 ·50	September	3. 21	68. 48 ·75
	23. 3	68. 48 ·75		8. 9	68. 46 ·25		4. 3	68. 50 ·00
	23. 9	68. 48 ·00		14. 21	68. 46 ·50		4. 9	68. 48 ·[illegible]
	29. 21	68. 48 ·00		15. 3	68. 43 ·00		10. 21	68. 43 ·75
	30. 3	68. 48 ·00		15. 9	68. 44 ·25		11. 3	68. 48 ·75
	30. 9	68. 49 ·25		21. 21	68. 46 ·50		11. 9	68. 50 ·00
				22. 3	68. 45 ·50		17. 21	68. 48 ·75
February	5. 21	68. 48 ·75		22. 9	68. 47 ·00		18. 3	68. 50 ·00
	6. 3	68. 49 ·00		28. 21	68. 46 ·50		18. 9	68. 48 ·75
	6. 9	68. 49 ·50		29. 3	68. 50 ·00		24. 21	68. 46 ·25
	12. 21	68. 47 ·00		29. 9	68. 46 ·25		25. 3	68. 45 ·00
	13. 3	68. 48 ·25					25. 9	68. 47 ·50
	13. 9	68. 44 ·00	June	4. 21	68. 47 ·50			
	19. 21	68. 49 ·75		5. 3	68. 46 ·50	October	1. 21	68. 48 ·00
	20. 3	68. 48 ·75		5. 9	68. 46 ·25		2. 3	68. 49 ·50
	20. 9	68. 47 ·50		11. 21	68. 50 ·00		2. 9	68. 47 ·[illegible]
	26. 21	68. 45 ·00		12. 3	68. 46 ·25		8. 21	68. 48 ·75
	27. 3	68. 46 ·25		12. 9	68. 49 ·75		9. 3	68. 48 ·00
	27. 9	68. 46 ·25		18. 21	68. 47 ·50		22. 21	68. 47 ·00
				19. 3	68. 46 ·25		23. 3	68. 46 ·75
March	5. 21	68. 48 ·25		19. 9	68. 47 ·75		23. 9	68. 46 ·75
	6. 3	68. 48 ·00		25. 21	68. 48 ·00		29. 21	68. 48 ·00
	6. 9	68. 46 ·50		26. 3	68. 48 ·75		30. 3	68. 46 ·25
	12. 21	68. 48 ·75		26. 9	68. 46 ·75		30. 9	68. 46 ·75
	13. 2	68. 47 ·00						
	13. 9	68. 46 ·75	July	2. 21	68. 49 ·75	November	5. 21	68. 46 ·75
	19. 21	68. 50 ·00		3. 3	68. 47 ·50		6. 3	68. 46 ·75
	20. 3	68. 43 ·75		3. 9	68. 49 ·25		6. 9	68. 46 ·75
	20. 9	68. 46 ·75		9. 21	68. 49 ·25		12. 21	68. 46 ·75
	26. 21	68. 46 ·25		10. 3	68. 47 ·50		13. 3	68. 48 ·00
	27. 3	68. 46 ·75		10. 9	68. 48 ·00		13. 9	68. 48 ·00
	27. 9	68. 46 ·50		16. 21	68. 43 ·75		19. 21	68. 48 ·75
				23. 21	68. 48 ·75		20. 3	68. 47 ·50
April	2. 21	68. 50 ·50		24. 3	68. 47 ·50		20. 9	68. 48 ·00
	3. 3	68. 48 ·00		24. 9	68. 47 ·50			
	3. 9	68. 50 ·50		30. 21	68. 48 ·75	December	3. 21	68. 47 ·50
	9. 21	68. 50 ·00		31. 3	68. 48 ·75		4. 3	68. 47 ·00
	10. 3	68. 54 ·00		31. 9	68. 47 ·50		4. 9	68. 47 ·25
	10. 9	68. 52 ·50					10. 21	68. 44 ·25
	16. 21	68. 48 ·00	August	6. 21	68. 48 ·75		17. 21	68. 47 ·[illegible]
	17. 3	68. 48 ·75		7. 3	68. 48 ·75		18. 3	68. 46 ·00
	17. 9	68. 51 ·75		7. 9	68. 49 ·25		18. 9	68. 43 ·[illegible]
	23. 21	68. 48 ·75		13. 21	68. 47 ·75		25. 21	68. 44 ·75
	24. 3	68. 47 ·75		14. 3	68. 50 ·50		26. 3	68. 49 ·00
				14. 9	68. 50 ·00		27. 9	68. 44 ·25

On December 17d. 21h. the air was saturated with moisture, and on December 18d. 9h. the wind was blowing very strongly.

MONTHLY MEANS of MAGNETIC DIPS, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1854.

1854. Month.	Monthly Means of Dips at 21h.	Number of Observations.	Monthly Means of Dips at 3h.	Number of Observations.	Monthly Means of Dips at 9h.	Number of Observations.
	° ′		° ′		° ′	
January	68. 48 ·39	4	68. 48 ·62	4	68. 49 ·31	4
February	68. 47 ·63	4	68. 48 ·06	4	68. 46 ·81	4
March	68. 48 ·31	4	68. 46 ·37	4	68. 46 ·62	4
April	68. 49 ·45	5	68. 49 ·62	4	68. 50 ·56	4
May	68. 46 ·56	4	68. 46 ·40	5	68. 46 ·35	5
June	68. 48 ·25	4	68. 46 ·94	4	68. 47 ·63	4
July	68. 48 ·05	5	68. 47 ·81	4	68. 48 ·06	4
August	68. 47 ·75	3	68. 49 ·50	4	68. 49 ·06	4
September	68. 46 ·87	4	68. 48 ·44	4	68. 48 ·56	4
October	68. 47 ·94	4	68. 47 ·63	4	68. 47 ·00	3
November	68. 47 ·41	3	68. 47 ·41	3	68. 47 ·58	3
December	68. 44 ·81	4	68. 46 ·00	3	68. 45 ·08	3
Mean	68. 47 ·62	48	68. 47 ·73	47	68. 47 ·72	46

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1854.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The Magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formulæ of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m\ X$ given by the vibration determines the value of X.

ABSTRACT of the OBSERVATIONS of DEFLEXION of a MAGNET for ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1854	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibrations of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	s		
January 10	Lateral	1. 0	38·0	10. 13. 2·70	5·445	100	37·2
	Axial			5. 32. 11·80			
	Lateral	1. 6		3. 2. 4·00			
	Axial			1. 33. 28·80	5·440	100	38·3
February 14	Lateral	1. 0	38·0	10. 10. 15·60			36·5
	Axial			5. 28. 4·15			
	Lateral	1. 6		3. 2. 51·32			
	Axial			1. 33. 21·30	5·430	100	40·0
March 2	Lateral	1. 0	53·0	10. 13. 42·71	5·430	100	47·5
	Axial			5. 31. 34·60			
	Lateral	1. 6		3. 2. 43·59			
	Axial			1. 34. 28·23	5·441	100	47·5
April 5	Lateral	1. 0	60·9	10. 15. 32·22	5·440	100	56·8
	Axial			5. 34. 53·69			
	Lateral	1. 6		3. 2. 33·18			
	Axial			1. 32. 21·75	5·452	100	63·8
May 30	Lateral	1. 0	63·4	10. 9. 4·98	5·419	100	60·5
	Axial			5. 37. 34·94			
	Lateral	1. 6		3. 4. 31·36			
	Axial			1. 34. 58·66	5·439	100	65·5
June 21	Lateral	1. 0	67·2	10. 5. 11·15	5·441	100	66·5
	Axial			5. 38. 23·70			
	Lateral	1. 6		3. 3. 38·31			
	Axial			1. 33. 42·80	5·450	100	67·5
July 28	Lateral	1. 0	73·9	10. 12. 46·76	5·456	100	77·0
	Axial			5. 43. 57·00			
	Lateral	1. 6		3. 3. 35·67			
	Axial			1. 35. 48·91	5·408	100	71·0
October 24	Lateral	1. 0	52·4	10. 10. 2·33	5·453	100	53·2
	Axial			5. 34. 55·45			
	Lateral	1. 6		3. 2. 7·13			
	Axial			1. 33. 50·49	5·452	100	51·0
December 3	Lateral	1. 0	48·8	10. 9. 6·14	5·455	100	46·8
	Axial			5. 40. 58·88			
	Lateral	1. 6		3. 1. 59·75			
	Axial			1. 33. 24·89	5·452	100	50·2

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1854.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a^1.	Apparent Value of b^1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m X$.	Value of X.	Value of m.
January 10	+0·17970	−0·00232		+0·08802	+0·00852	+0·181845	8·95867	5·443	0·11686	3·795	0·3450
February 14	+0·18173	−0·00514		+0·08872	+0·00657	+0·181388	8·95757	5·430	0·11824	3·808	0·3455
March 2	+0·18071	−0·00315		+0·08983	+0·00647	+0·182129	8·95349	5·436	0·11728	3·796	0·3457
April 5	+0·17920	−0·00110		+0·08542	+0·01184	+0·182505	8·96024	5·446	0·11638	3·785	0·3454
May 30	+0·18489	−0·00864	−0·00477	+0·08560	+0·01244	+0·181520	8·95789	5·429	0·11910	3·786	0·3455
June 21	+0·18447	−0·00934		+0·08698	+0·01130	+0·180497	8·95544	5·445	0·11654	3·807	0·3436
July 28	+0·18243	−0·00513		+0·08850	+0·01150	+0·182130	8·95935	5·432	0·11862	3·799	0·3452
October 24	+0·18045	−0·00393		+0·08804	+0·00923	+0·181135	8·95712	5·453	0·11527	3·794	0·3457
December 3	+0·18042	−0·00416		+0·08590	+0·01313	+0·180963	8·95656	5·453	0·11527	3·796	0·3455

VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE, from OBSERVATIONS of VIBRATION of the DEFLECTING MAGNET $\frac{D}{XX}$, unaccompanied by DEFLEXION.

Month and Day, 1854.	Adopted Time of Vibration.	Temperature.	Log. $m X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
January 26	5·328	40·5	0·13540	0·3449	3·960
February 24	5·459	46·5	0·11431	0·3455	3·766
March 14	5·456	53·5	0·11479	0·3456	3·769
April 29	5·419	50·5	0·12070	0·3454	3·823
June 19	5·441	57·0	0·11718	0·3437	3·811
November 13	5·447	47·6	0·11623	0·3436	3·803
December 26	5·457	41·7	0·11463	0·3435	3·791

The number of vibrations employed in each determination was 100.

There is some error in the time of vibration on January 26; it is too small by about $0^s\cdot1$.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1854.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays, and on Good Friday and Christmas Day, on which days a smaller number of observations has been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II. (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the highest temperature of the air, and the highest state of the wet-bulb thermometer, are mercurial thermometers invented by Messrs. Negretti and Zambra, and described in the volume for 1851; and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they are self-registering. The readings given are corrected for index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

A mean daily reading of the dry thermometer is inferred from the mean of observations taken at the same hours as the observations of the barometer, corrected by a quantity given in the *Phil. Trans.*, 1848, part I. Another mean daily reading is inferred from the mean of the maximum and minimum thermometers, also corrected by a small quantity given in the same paper. The mean daily value given in the tables is found by combining these two corrected means, giving them weights proportional to the number of observations from which they are respectively derived.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from the comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·5	32	3·1	44	2·3	56	1·9	68	1·6	80	1·5
21	8·5	33	2·8	45	2·3	57	1·9	69	1·5	81	1·5
22	8·5	34	2·6	46	2·3	58	1·9	70	1·5	82	1·5
23	8·5	35	2·6	47	2·2	59	1·8	71	1·5	83	1·5
24	7·3	36	2·6	48	2·2	60	1·8	72	1·5	84	1·5
25	6·4	37	2·5	49	2·2	61	1·8	73	1·5	85	1·5
26	6·1	38	2·5	50	2·1	62	1·7	74	1·5	86	1·5
27	6·1	39	2·5	51	2·1	63	1·7	75	1·5	87	1·5
28	5·7	40	2·4	52	2·0	64	1·7	76	1·5	88	1·5
29	5·0	41	2·4	53	2·0	65	1·6	77	1·5	89	1·5
30	4·6	42	2·4	54	2·0	66	1·6	78	1·5	90	1·5
31	3·7	43	2·4	55	2·0	67	1·6	79	1·5		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. They are read at 21^h (9^h A.M.) every day; their readings are placed opposite to the day preceding the civil day on which the scales are actually read. The thermometer for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction: it is read at 9^h P.M. every evening.

The thermometer for the maximum temperature of the water of the Thames was out of order from December 17 to December 23. That for the minimum temperature was out of order from September 21 to September 24; October 1 to October 4; and December 17 to December 23.

The mean daily value of the difference between dew-point temperature and air-temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, or they are found from the absolute maxima and minima, as determined by comparing the observations of the self-registering wet-bulb thermometers with those of the self-registering dry-bulb thermometers.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of thirty-eight years, is found by comparison with a table of results deduced by Mr. Glaisher from thirty-eight years' observations, made at the Royal Observatory, ending 1851.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-guage No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary :—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given :—

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described: thus, s s is very strong; v v, very variable.

The Clouds and Weather are described generally by Howard's Nomenclature; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows :—

a denotes *aurora borealis*	so-ha denotes *solar halo*	c-r denotes *continued rain*	h-sqs denotes *heavy squalls*
ci .. *cirrus*	l .. *lightning*	c-h-r .. *continued heavy rain*	fr-h-sqs .. *frequent heavy squalls*
ci-cu .. *cirro-cumulus*	li-cl .. *light clouds*	m-r .. *misty rain*	sc .. *scud*
ci-s .. *cirro-stratus*	lu-co .. *lunar corona*	fr-m-r .. *frequent misty rain*	li-sc .. *light scud*
cu .. *cumulus*	lu-ha .. *lunar halo*	sl-r .. *slight rain*	sl .. *sleet*
cu-s .. *cumulo-stratus*	m .. *meteor*	h-sh .. *heavy showers*	sn .. *snow*
d .. *dew*	ms .. *meteors*	fr-shs .. *frequent showers*	sl-sn .. *slight snow*
h-d .. *heavy dew*	n .. *nimbus*	fr-h-shs .. *frequent heavy showers*	s .. *stratus*
f .. *fog*	r .. *rain*	li-shs .. *light showers*	t .. *thunder*
th-f .. *thick-fog*	th-r .. *thin rain*	oc-shs .. *occasional showers*	t-s .. *thunder storm*
fr .. *frost*	oc-r .. *occasional rain*	sq .. *squall*	v .. *variable*
h-fr .. *hoar frost*	fr-r .. *frozen rain*	sqs .. *squalls*	w .. *wind*
h .. *haze*	h-r .. *heavy rain*	fr-sqs .. *frequent squalls*	st-w .. *strong wind*
hl .. *hail*	shs-r .. *showers of rain*		

MONTH and DAY. 1884	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, reading Thermometer read at 9 P.M.	Lowest on the Grass, reading Thermometer read at 9 A.M.	Range of Temperature in the Solar Rays, reading Thermometer read at 9 A.M. Highest.	Range of Temperature in the Solar Rays, reading Thermometer read at 9 A.M. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 18 Years.	Wind as deduced from Anemometers. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Hours.	Mean Daily Velocity of the Wind in Miles per Hour.	Rain in Inches and Hundredths from 9 A.M. to 9 P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.			in.
Jan. 1	..	29·384	31·3	21·8	26·7	23·6	32·3	17·0	33·5	32·7	3·1	4·6	1·8	− 9·8	W	W	0·0	0·0	0·0	90	0·00
2	..	29·181	29·8	16·0	24·8	22·9	31·3	14·3	33·4	32·2	1·9	3·7	1·7	−11·5	Calm	NW	0·0	0·0	0·0	25	0·00
3	..	29·152	32·5	13·3	23·7	22·2	32·8	11·0	33·0	32·1	1·5	6·1	1·1	−12·3	Calm	NE	5·5	0·0	1·6	170	0·00
4	..	28·856	33·5	28·8	31·4	30·7	35·0	30·0	33·0	32·7	0·7	1·6	0·6	− 4·3	ENE	Variable	6·1	0·0	2·0	70	0·01
5	In Equator	28·846	34·8	30·7	32·4	31·2	35·3	31·5	33·5	32·7	1·2	2·2	0·6	− 3·1	SW	SW; ENE	0·0	0·0	0·0	20	0·60
6	First Qr.	29·017	39·2	30·2	32·7	31·9	39·8	29·8	33·6	32·9	0·8	1·9	0·5	− 2·6	SE; SW	SW; SE	0·0	0·0	0·0	100	0·00
7	..	28·901	43·9	34·0	39·7	37·5	46·0	30·3	33·5	33·2	2·2	4·6	1·3	+ 4·6	NE; SE	SE	3·6	0·0	0·4	110	0·00
8	..	28·994	47·9	36·6	41·8	38·2	49·1	32·8	34·6	33·9	3·6	9·0	1·8	+ 6·9	SE; S	S	1·8	0·0	0·3	140	0·00
9	..	29·056	40·8	34·2	36·8	36·0	44·0	29·8	33·5	34·2	0·8	4·1	0·5	+ 1·8	SE	N	0·0	0·0	0·0	60	0·00
10	..	29·416	41·0	34·3	36·8	35·3	41·5	33·6	35·6	35·6	1·5	6·7	1·3	+ 1·7	NNW	NNW	0·0	0·0	0·0	135	0·00
11	Apogee	29·700	37·8	33·3	34·9	32·8	40·0	33·0	33·5	33·5	2·1	4·5	1·3	− 0·3	NNW	NW	1·0	0·0	0·2	80	0·00
12	..	29·654	40·0	32·2	36·2	31·8	40·3	32·0	33·5	33·5	4·4	8·0	1·3	+ 0·9	Calm	SE	0·0	0·0	0·0	30	0·00
13	[illegible]	29·561	43·7	34·4	38·4	32·2	48·3	30·5	36·0	35·8	6·2	7·9	0·5	+ 2·9	S	SE	1·8	0·0	0·2	140	0·00
14	Full	29·516	45·8	33·2	37·8	34·8	50·5	28·0	36·0	36·0	3·0	8·7	1·3	− 2·1	SE; S	Calm	0·0	0·0	0·0	10	0·00
15	..	29·595	40·7	32·3	36·4	35·9	41·0	25·3	36·0	36·0	0·5	6·5	0·5	+ 0·6	NE	Calm	0·0	0·0	0·0	10	0·00
16	..	29·757	47·6	37·0	42·2	40·8	48·0	33·8	37·2	36·8	1·4	3·5	0·3	+ 6·2	Calm	S	0·0	0·0	0·0	100	0·00
17	..	29·925	49·0	45·0	46·5	44·3	50·0	38·5	39·0	37·7	2·2	3·9	1·1	+10·3	SSW	S	0·0	0·0	0·0	125	0·00
18	..	30·030	49·3	41·0	45·0	42·2	51·0	44·2	40·6	38·6	2·8	6·2	1·0	+ 8·6	S	S	0·0	0·0	0·0	30	0·00
19	..	29·878	43·0	31·9	35·5	31·6	46·0	29·8	41·5	39·5	0·0	4·3	0·0	− 1·0	SE; E	ESE	0·0	0·0	0·0	45	0·00
20	In Equator	29·864	52·3	33·2	44·4	40·3	59·0	24·8	43·5	40·8	4·1	10·6	0·6	+ 7·7	ESE	ESE	1·0	0·0	0·1	130	0·00
21	..	30·112	51·7	41·8	47·0	42·3	56·5	35·0	43·5	41·6	3·0	6·2	1·4	+ 8·5	S	SE	0·0	0·0	0·0	75	0·00
22	Last Qr.	29·917	51·5	34·7	43·1	41·2	57·0	28·4	43·5	42·0	1·9	3·7	0·5	+ 6·3	SE	SSE	0·0	0·0	0·0	75	0·01
23	..	29·970	51·2	35·5	42·0	38·9	55·0	33·0	43·5	42·1	3·1	9·2	0·8	+ 3·1	S	SSE	0·0	0·0	0·0	150	0·02
24	..	29·544	46·8	38·7	42·1	39·7	..	34·5	43·2	41·4	2·4	4·8	1·4	+ 5·1	SSE	S; SW	4·0	0·0	0·7	125	0·10
25	..	29·992	46·8	31·9	39·5	34·0	..	25·2	43·5	42·1	5·5	9·7	1·6	+ 2·4	SW	S	3·0	0·0	1·5	215	0·00
26	[illegible]	30·291	52·1	37·9	45·4	35·4	56·5	29·8	43·2	41·9	8·0	14·2	2·8	+ 6·2	SW	SW	3·0	0·0	0·3	135	0·00
27	Perigee	30·252	48·5	33·4	42·3	40·1	50·0	26·5	43·2	41·0	2·2	4·8	0·2	+ 3·0	SSE	S	3·5	0·0	0·9	230	0·00
28	New	29·[illegible]	49·5	37·0	43·3	40·8	53·0	39·5	43·2	42·3	2·5	6·0	0·2	+ 6·1	S	SW	1·0	0·0	0·2	135	0·00
29	..	29·735	52·0	32·8	46·1	44·8	56·0	27·5	43·6	42·5	1·3	5·0	0·0	+ 5·8	S; SW	SW	6·0	0·0	1·8	165	0·00
30	..	30·009	54·8	45·2	49·3	47·0	56·0	46·0	44·5	43·2	3·7	6·8	2·9	+11·8	SW	SW	2·0	0·6	1·9	210	0·00
31	..	30·044	53·2	44·9	48·9	47·4	56·5	38·9	45·8	43·7	3·5	4·4	0·9	+11·3	SW	SW	3·0	0·5	2·0	240	0·00
Feb. 1	..	29·818	50·5	41·0	45·6	42·5	53·0	43·5	46·5	44·2	3·1	5·7	0·7	+ 7·9	SSW	SSW; N	4·1	0·0	0·3	85	0·30
2	In Equator	30·[illegible]	46·2	33·6	38·2	34·9	52·5	33·3	46·4	44·2	3·3	10·8	0·5	+ 0·4	N	N; Calm	0·0	0·0	0·0	65	0·00
3	..	30·166	43·0	25·7	32·9	32·6	52·5	17·8	46·0	43·7	0·3	3·6	0·0	− 4·9	Calm	Calm	0·0	0·0	0·0	35	0·04
4	First Qr.	29·833	45·5	28·2	36·0	32·1	52·0	19·8	45·5	42·5	3·0	10·4	2·8	− 1·9	NE	SE	4·6	0·0	0·5	115	0·03
5	..	29·807	51·0	37·7	43·0	41·4	51·5	28·8	45·4	42·5	2·5	5·3	2·0	+ 5·9	SW	SW	4·3	0·0	1·5	200	0·13
6	..	29·928	57·0	46·3	51·1	46·7	62·0	41·5	45·0	42·5	4·4	7·6	3·0	+13·0	SW	SW	8·4	1·0	3·4	315	0·00
7	..	29·918	54·8	40·7	47·3	41·8	58·0	36·0	45·0	43·0	5·5	8·6	3·8	+ 9·1	SW	W	9·0	0·0	2·5	240	0·00
8	Apogee	30·036	45·5	37·0	40·8	31·7	52·2	30·5	45·0	42·2	9·1	13·4	5·5	+ 2·5	SW	W	5·8	0·0	2·5	200	0·00
9	[illegible]	29·944	46·0	34·4	38·4	34·9	49·0	31·8	44·0	42·5	3·5	6·5	1·8	+ 0·1	SW	NW	16·0	0·0	2·7	170	0·12
10	..	30·129	43·0	32·4	37·0	31·2	52·0	26·0	44·0	41·7	5·8	9·4	3·9	− 1·4	NW	NNW	4·8	0·0	1·4	105	0·00
11	..	30·105	40·0	32·2	35·4	27·3	48·5	30·0	43·8	40·8	8·1	11·8	4·8	− 3·1	NNW	NW; Calm	1·9	0·0	0·2	35	0·00
12	..	30·101	43·9	29·4	33·8	31·7	47·0	20·7	42·8	39·8	2·1	5·8	1·7	− 4·8	Calm	NNE	0·0	0·0	0·0	35	0·00
13	Full	30·[illegible]	40·0	27·1	31·4	25·1	48·8	21·7	40·0	37·5	6·5	10·7	1·8	− 7·1	N	NE; Calm	0·0	0·0	0·0	10	0·00
14	..	30·428	41·8	23·5	32·4	27·0	45·0	16·5	40·5	38·8	5·4	12·1	2·1	− 6·4	Calm	SW	1·0	0·0	0·1	170	0·00
15	..	29·849	44·0	31·1	35·9	30·7	47·0	22·2	40·4	38·9	5·2	8·1	4·0	− 2·9	SW; NW	NW	3·0	0·0	0·8	120	0·13
16	In Equator	29·[illegible]21	40·0	31·1	35·4	28·9	45·0	22·5	40·5	38·9	6·5	10·8	3·8	− 3·5	NW	NW; S	0·0	0·0	0·0	150	0·00
17	..	29·460	49·8	36·2	41·9	35·2	52·0	30·0	40·4	38·9	6·7	10·1	5·5	− 2·9	S	SW; W	13·0	0·0	3·9	290	0·00
18	..	29·489	41·5	29·4	34·3	27·9	44·0	23·8	40·0	38·4	6·9	20·0	3·4	− 4·3	W; NW	NW	17·0	1·7	4·7	295	0·00
19	..	29·840	40·7	30·0	34·3	24·1	48·0	26·5	39·0	37·7	10·4	13·5	..	− 4·7	NW	NW; W	8·9	0·0	1·9	60	0·00
20	Last Qr.	29·786	53·0	33·6	42·6	40·7	57·0	20·7	39·5	38·4	1·9	5·7	0·7	+ 3·3	S	SW	3·0	0·0	0·5	80	0·00
21	..	30·144	52·0	33·5	41·1	35·1	64·0	25·0	39·5	38·9	6·0	14·0	1·3	+ 1·8	N	NE; Calm	0·0	0·0	0·0	60	0·00
22	..	29·978	48·7	34·[illegible]	41·4	35·[illegible]	56·[illegible]	25·0	41·0	39·3	5·5	12·5	2·5	+ 2·0	S	S	6·0	0·0	1·6	130	0·00
23	[illegible]	30·[illegible]14	49·6	35·8	41·1	32·5	56·0	28·2	41·4	39·[illegible]	8·6	13·6	5·0	+ 1·6	NW	NW; S	5·2	0·0	1·5	85	0·10
24	Perigee	30·292	48·5	38·2	41·4	35·[illegible]	56·[illegible]	24·2	41·8	40·3	5·5	10·1	3·5	+ 1·8	S	SW	4·8	0·0	1·8	190	0·00
25	..	30·[illegible]10	51·1	39·[illegible]	44·2	32·6	59·0	30·0	42·0	40·6	11·0	16·0	7·4	+ 4·5	SW; W	NW	6·0	0·0	1·3	140	0·00
26	..	30·416	50·0	31·2	41·3	32·2	60·0	20·0	42·2	40·7	9·1	14·1	0·7	+ 1·5	SW	Calm	0·0	0·0	0·0	50	0·00
27	New	30·251	51·5	33·5	41·0	36·4	64·5	23·2	42·5	40·8	6·3	13·7	2·4	+ 2·0	N; SW	SW; S	4·0	0·0	0·5	180	0·00
28	..	30·[illegible]18	53·5	36·5	43·9	33·3	63·2	29·2	43·2	41·2	10·6	18·1	3·4	+ 4·0	S	SW; NW	3·0	0·0	0·4	50	0·00

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1	w	w	10, s, ci.-s, sn	10, s, ci.-s : o
2	w	w	5, s, ci.-s : 10	5, s, ci.-s
3	w	w	10, s	10, s, sn
4	w	w	10, sl	10, sl
5	w	w	10, sn	10, sn
6	w	w	10, ci.-s	10, ci.-s, sn, r : lu.-co
7	w	w	10	10 : v
8	w	w	7, cu, ci.-cu, ci	7, cu, ci.-cu, ci : lu.-co
9	w	w	10, r	10
10	w	w	9 : 10	10 : m.-r
11	w	w	10 : 9	10 : m.-r
12	w	w	10	10 : m.-r
13	w	w	o	o : 10
14	w	w	o	o : 10, s, lu.-ha
15	o	o	10	10
16	o	o	10, s, sc	10, s, sc : m.-r
17	o	o	10, sqs, r	10 : m.-r
18	o	o	10	10
19	o	o	10, f	10, f : o
20	o	o	8, ci.-s	10, ci.-s
21	o	o	10, s, ci.-s, li.-cl	5, ci.-s, li.-cl : o
22	o	o	o	o : 10
23	o	o	10, ci.-s	o
24	o	o	10, m.-r	10, m.-r
25	o	o	o, h.-fr	7, ci.-s, ci : 10, ci.-s
26	o	o	o	2, li.-cl : o
27	o	o	o : 10, ci.-s	10 : th.-r
28	o	o	10, r	v, ci.-cu
29	o	o	10, fr.-m.-r	10, fr.-m.-r
30	o	o	10	v
31	o	o	10	10, : a
Feb. 1	o	o	10	10 : r
2	o	o	10, ci.-s : o	o
3	o	o	10, th.-f, h.-fr	o
4	o	o	o	9, ci.-cu, ci.-s
5	o	o	10, r	10 : sl.-r
6	o	o	10, ci.-s : 9	10, ci.-s, sc
7	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s : 7, lu.-co
8	o	o	10 : 10, cu.-s	10, cu.-s, ci.-s : v, lu.-co
9	o	o	10 : r	10, h.-sqs.-r : o
10	o	o	o	10, ci.-cu, ci.-s, sc
11	o	o	10	10
12	o	o	10, th.-f : 5	5 : o
13	o	o	10, cu, cu.-s, ci.-s	o
14	o	o	o	o : 10
15	o	o	10, h.-r	10
16	o	o	9, cu, cu.-s, ci.-s	9, cu, cu.-s, ci.-s
17	o	o	10, ci.-s, sc	10, ci.-s, sn, r : 8
18	o	o	9, cu, cu.-s ci.-s, sn	9, cu, sc, sn : v
19	o	o	o	o : 10
20	o	o	10, sl.-r	10, sl.-r
21	o	o	o, h.-fr	o : v
22	o	o	5, cu, ci.-cu	5 : 10
23	o	o	5	o : f
24	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc
25	o	o	5, li.-cl, h	5, li.-cl, h : o
26	o	o	o	o : a
27	o	o	5, ci.-cu, li.-cl	5, ci.-cu, li.-cl : o
28	o	o	10, cu, cu.-s, ci.-s	o : f

MONTH and DAY, 1854.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Solar Radiation, as shown by Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by Self-registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 28 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wind. Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.															lbs.	lbs.	lbs.	miles.	in.
Mar. 1	In Equator.	30·397	54·5	28·0	40·4	30·3	69·5	16·8	42·8	40·7	10·1	18·0	4·6	+ 0·4	Calm	Calm; SE	0·0	0·0	0·0	15	0·00
2	..	30·347	56·7	30·6	43·2	31·1	70·0	17·5	43·0	41·2	12·1	23·8	2·3	+ 3·2	Calm	Calm	0·0	0·0	0·0	20	0·00
3	..	30·311	57·0	24·6	38·8	27·0	72·0	14·8	43·2	41·7	11·8	24·4	6·7	— 1·2	SE; Calm	Calm	0·0	0·0	0·0	5	0·00
4	..	30·643	49·8	27·4	37·7	33·2	55·0	15·0	43·0	41·7	4·5	11·0	0·0	— 2·2	Calm; NE	NE	0·0	0·0	0·0	55	0·00
5	..	30·539	48·5	28·3	35·4	33·6	55·0	34·2	43·2	41·9	1·8	10·6	0·0	— 4·4	NE	NE; Calm	0·0	0·0	0·0	5	0·00
6	First Qr.	30·381	47·0	25·5	34·6	32·6	55·0	15·1	43·0	41·9	1·4	10·8	0·0	— 5·7	Calm	Calm	0·0	0·0	0·0	5	0·00
7	Apogee	30·306	50·0	27·4	36·7	35·2	51·8	20·7	43·0	41·7	1·5	7·4	0·0	— 3·0	Calm; SW	S	0·0	0·0	0·0	135	0·00
8	Greatest Declination N.	30·224	58·0	42·8	49·3	45·1	66·0	35·0	43·8	42·5	4·2	10·5	2·6	+ 9·4	S	SSW	3·8	0·0	1·8	210	0·00
9	..	30·148	63·0	48·0	54·5	48·2	78·0	45·0	46·0	43·4	6·3	14·5	2·9	+ 14·3	SW	SW	3·6	0·0	2·0	195	0·00
10	..	29·962	56·7	45·3	47·3	39·2	66·5	45·0	47·2	43·9	8·1	12·7	3·8	+ 6·9	SW	SW	4·8	0·0	2·4	195	0·03
11	..	30·044	62·8	42·2	49·2	43·5	75·5	32·0	48·8	45·0	5·9	15·8	1·2	+ 8·5	SW	SW	3·2	0·0	1·2	65	0·00
12	..	29·893	64·0	34·9	49·3	37·0	78·5	24·8	49·0	45·5	12·3	18·1	2·3	+ 8·4	Calm	S	0·0	0·0	0·0	60	0·00
13	..	29·850	64·2	39·7	52·1	38·1	79·2	27·0	49·4	46·1	14·0	21·1	4·2	+ 10·9	Calm	S	2·4	0·0	0·5	200	0·00
14	Full	29·867	54·4	45·3	49·0	45·5	59·0	32·2	49·2	45·9	5·5	9·2	2·4	+ 7·6	S	SW; Calm	0·0	0·0	0·0	55	0·00
15	In Equator	30·082	56·5	37·6	47·9	44·8	63·0	26·5	49·5	46·5	3·1	8·0	1·5	+ 6·4	SW	SW	1·2	0·0	0·3	100	0·00
16	..	30·035	58·6	43·8	48·6	42·0	60·0	39·2	49·6	46·7	6·6	13·7	4·2	+ 6·9	S	W; NW	2·4	0·0	0·2	65	0·00
17	..	30·288	54·8	35·2	42·4	34·0	72·8	20·2	49·6	46·9	8·4	16·8	0·8	+ 0·6	NW; N	N; Calm	0·0	0·0	0·0	95	0·00
18	..	29·964	55·2	31·3	41·0	37·2	58·0	17·5	49·0	46·9	3·8	13·3	0·0	— 0·8	Calm	SW; NW	1·0	0·0	0·0	45	0·13
19	..	29·955	53·5	36·1	40·5	36·2	56·0	30·2	48·8	46·1	4·3	11·5	1·0	— 1·4	NE	NE	3·6	0·0	0·9	100	0·14
20	..	30·227	43·8	32·5	36·7	31·7	49·0	24·2	48·5	45·7	5·0	12·6	2·1	— 5·3	NE	NE; N	3·0	0·0	0·8	70	0·00
21	Last Qr.	30·231	51·7	35·5	40·6	36·3	60·0	27·0	48·0	44·4	4·3	15·4	1·8	— 1·5	N; NW	N	3·4	0·0	0·6	85	0·02
22	Perigee Greatest Dec. S.	30·351	51·2	30·5	40·6	34·1	65·0	19·7	47·5	44·1	6·5	15·1	2·8	— 1·6	NW	NW	2·0	0·0	0·4	125	0·01
23	..	30·275	52·5	37·9	42·3	37·0	58·0	38·2	47·4	43·9	5·3	12·0	2·0	0·0	NW	NW	2·6	0·0	1·4	80	0·00
24	..	30·175	49·0	32·6	40·3	35·0	55·0	19·2	46·8	43·7	5·3	11·4	2·6	— 2·1	S; NW	N	1·0	0·0	0·0	65	0·00
25	..	29·909	47·8	31·3	39·7	34·9	49·5	21·2	46·5	43·7	4·8	9·5	2·7	— 2·8	SW	W	1·8	0·0	0·1	105	0·00
26	..	29·821	54·8	40·4	46·0	39·6	60·5	27·3	46·5	43·7	6·4	13·6	2·8	+ 2·0	WSW	NW; N	2·8	0·0	0·4	55	0·03
27	..	30·094	64·8	37·3	42·9	37·9	65·0	35·0	46·5	43·7	5·0	13·6	2·3	+ 0·1	Calm	WSW	0·0	0·0	0·0	5	0·00
28	New In Equator	30·216	58·7	38·6	48·2	40·9	65·5	27·2	46·0	44·1	7·3	12·8	5·3	+ 5·2	WSW	NNW	0·0	0·0	0·0	40	0·00
29	..	30·225	62·2	35·5	48·0	40·1	79·5	24·0	47·5	44·9	7·9	14·9	0·0	+ 4·8	SW	W	1·4	0·0	0·2	135	0·00
30	..	30·121	60·5	40·3	47·1	41·4	72·8	28·7	48·5	45·3	5·7	13·5	4·0	+ 3·8	SW	WSW	3·6	0·0	0·6	105	0·00
31	..	30·264	61·5	35·0	47·4	37·5	63·8	23·2	49·0	45·7	9·9	18·9	4·7	+ 4·0	W	SW	0·0	0·0	0·0	120	0·00
April 1	..	30·120	71·0	34·9	51·4	38·4	83·5	25·5	50·0	46·5	13·0	24·3	2·3	+ 7·8	SSW	SW	1·6	0·0	0·2	75	0·00
2	..	30·285	64·5	39·3	49·0	44·4	84·0	28·8	51·0	47·3	4·6	14·9	0·3	+ 5·3	N	NE; Calm	0·0	0·0	0·0	25	0·00
3	..	30·388	60·2	39·9	48·0	39·6	77·0	24·3	51·8	48·3	8·4	15·7	4·1	+ 4·1	NE	NW	0·0	0·0	0·0	55	0·00
4	Apogee Greatest Dec. N.	30·350	61·2	33·9	46·2	37·2	75·8	20·0	52·5	49·2	9·0	18·0	5·0	+ 2·2	NW; W	W	0·0	0·0	0·0	65	0·00
5	First Qr.	30·252	65·8	36·6	50·7	44·6	78·8	25·5	52·6	49·4	6·1	18·9	4·0	+ 6·5	W	Calm	0·0	0·0	0·0	30	0·00
6	..	30·225	66·5	36·5	50·5	42·5	84·5	24·0	53·4	49·6	8·0	18·2	3·0	+ 6·1	Calm	W	0·0	0·0	0·0	80	0·00
7	..	30·232	66·0	37·2	51·0	44·1	78·0	26·0	54·0	50·0	6·9	16·0	1·8	+ 6·6	SW	NE	0·0	0·0	0·0	10	0·00
8	..	30·040	68·2	40·9	53·9	44·1	89·5	29·5	55·0	50·4	9·8	18·0	1·7	+ 9·2	Calm	SW; Calm	0·0	0·0	0·0	40	0·00
9	..	30·047	66·0	40·1	50·8	43·7	86·5	26·5	55·0	50·4	7·1	15·2	1·0	+ 6·0	Calm	NNE; ESE	0·0	0·0	0·0	5	0·00
10	..	30·059	56·5	35·1	43·3	40·9	75·0	22·5	55·2	50·9	2·4	12·7	1·7	— 1·7	Calm; E	E	0·0	0·0	0·0	60	0·00
11	..	30·033	65·0	34·1	47·2	41·0	84·8	24·0	55·0	50·9	6·2	16·0	2·1	+ 2·1	Calm	ENE	3·0	0·0	0·3	75	0·00
12	In Equator	30·219	62·0	38·3	48·0	39·4	81·0	26·5	55·0	51·3	8·6	20·4	2·5	+ 2·7	NE	NE	2·4	0·0	0·6	40	0·00
13	Full	30·191	60·0	43·5	49·8	41·0	77·0	41·0	54·6	51·3	8·8	16·6	6·9	+ 4·3	NE	E	3·6	0·0	0·5	40	0·03
14	..	29·987	66·5	33·1	47·1	37·6	87·5	23·2	54·4	51·5	9·5	23·2	0·8	+ 1·4	Calm	E; Calm	0·0	0·0	0·0	5	0·00
15	..	29·885	68·8	35·4	49·9	38·8	88·8	28·0	54·2	50·7	11·1	18·2	6·7	+ 4·0	Calm	NE	1·0	0·0	0·0	45	0·00
16	Perigee	30·023	65·5	34·2	50·2	39·1	85·0	22·7	54·5	50·9	11·1	22·2	5·3	+ 4·2	NE	ENE	1·8	0·0	0·5	60	0·00
17	..	30·119	55·0	40·3	45·5	42·7	77·0	39·2	54·8	51·4	2·8	6·7	1·2	— 0·8	ENE	E	2·0	0·0	0·4	25	0·00
18	Greatest Declination S.	29·988	64·7	35·8	50·6	44·3	86·0	25·0	55·0	51·7	6·3	13·4	2·1	+ 4·1	Calm	ESE	3·0	0·0	0·5	30	0·00
19	..	29·867	76·0	44·1	58·2	43·9	102·0	33·8	56·0	52·7	14·3	28·2	3·7	+ 11·4	Calm	ESE	1·6	0·0	0·3	60	0·00
20	Last Qr.	29·544	77·5	44·5	59·9	45·5	100·2	32·0	57·0	53·7	14·4	28·8	4·1	+ 12·9	E	ESE	3·6	0·0	0·3	60	0·03
21	..	29·304	74·2	50·5	58·2	51·2	105·0	47·0	57·6	53·9	7·0	19·4	1·1	+ 10·9	E	E	0·0	0·0	0·0	75	0·00
22	..	29·349	53·0	42·5	45·4	44·7	54·5	34·5	57·2	53·7	0·7	4·4	0·0	— 2·1	NNE	NE	7·0	0·0	1·3	195	0·27
23	..	29·827	48·2	37·0	40·0	32·6	61·0	28·0	56·4	52·2	7·4	13·6	5·0	— 7·8	NE	NNE	6·5	1·2	3·3	200	0·00
24	..	30·204	51·8	31·4	39·5	31·6	72·0	22·0	55·0	50·9	7·9	16·0	3·1	— 8·7	NNE	NE	4·0	0·0	0·8	75	0·00
25	In Equator	30·287	52·2	28·3	40·5	33·8	68·5	14·8	53·5	50·4	6·7	15·4	2·3	— 8·0	N	N	0·0	0·0	0·0	70	0·00
26	..	30·255	57·8	38·2	46·8	40·2	74·5	25·4	53·0	49·2	6·6	14·8	1·0	— 2·0	N	NNE	4·0	0·0	0·7	215	0·00
27	New	29·740	55·0	42·4	46·4	44·8	58·0	33·5	51·8	48·7	1·6	6·0	1·0	— 2·8	W	NNW	5·0	0·0	1·0	185	0·13
28	..	29·765	53·0	41·5	44·7	37·1	65·0	33·1	51·0	48·7	7·6	13·8	6·5	— 4·8	NW	N	7·0	0·0	2·1	120	0·01
29	..	29·535	53·3	38·7	43·3	40·4	66·0	29·8	50·5	48·3	2·9	9·9	0·9	— 6·6	W	N; Calm	0·0	0·0	0·0	115	0·05

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1	o	o	o, f, h.-fr	o
2	o	o	o, f, h.-fr	o
3	o	o	o	o : f
4	o	o	o : 10	10
5	o	o	10 : o	o : 10, th.-f
6	o	o	10, th.-f, h.-fr : o	o : 10, f
7	m	m	10, th.-f	10
8	o	o	10, ci.-s	10 ci.-s
9	o	o	v, cu, ci.-s, sc	v, cu, ci.-s, sc
10	o	o	10, ci.-s, li.-cl	10, r : v
11	o	o	v, ci.-s, li.-cl	v : lu.-ha, lu.-co
12	o	o	o	o
13	o	o	o	o
14	o	o	10, ci.-s	10, ci.-s : lu.-ha
15	o	o	o : 10	10, cu, cu.-s, sc
16	o	o	7, ci.-s, r	7, ci.-s
17	o	o	o	o
18	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s : v, r
19			10, r	10
20			10, cu.-s, ci.-s	8, cu.-s, ci.-s : 10
21			10, cu, cu.-s, ci.-s, r	7, cu, cu.-s, c.i-s : o
22			v, cu, cu.-s, ci.-s	v : 10
23			10, cu, sc	10, cu, sc : o
24			10	10 : v
25			10	10
26			10, cu.-s, ci.-s, r	10, cu.-s, ci.-s, r
27			10, ci.-s	10, ci.-s : o
28			10	10, cu.-s, ci.-s, h
29			2, ci.-s : o	o
30			10, ci.-cu, ci.-s	v
31			o, f	o
April 1			o	o
2			5, ci.-cu, li.-cl : o	o : 5, ci.-s
3			o	7, cu, cu.-s, ci.-s : o
4			o	o
5			o	o
6			o	o
7			o	5, cu, cu.-s : o
8			o	3, cu, cu.-s, li.-cl : o
9			o	o
10			10, ci.-s	o
11			5, ci.-s : o	o
12			5, cu.-s, ci.-s	o : 10
13			10, ci.-s, r : o	o
14			o	o : a
15			7, cu.-s, ci.-s, li.-cl	7, cu.-s, ci.-s, li.-cl
16			o	o : 10
17			10, cu, cu.-s, ci.-s	10, cu, cu.-s : o
18			o	o
19			o	o
20			o : 5	10, ci.-s, li.-cl, r
21			10, cu, cu.-s, r : 7	7, cu, cu.-s, r
22			10, sl.-r	10, sl.-r
23			10	o
24			7, cu, cu.-s, ci.-s	5, cu, cu.-s : o
25			10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
26			10, ci.-s	10, ci.-s
27			10, ci.-s, r	5 : 10, h.-r
28			10	10
29			10, r	10

The Electrical Apparatus was not in use from March 19 to May 9.

MONTH and DAY, 1854.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit)	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest in the Grass, as shewn by a Self-Registering Thermometer fixed at 9h P.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Wind as deduced from Anemometers. Osler's. Pressure in lbs. on the square foot. Greatest.	Wind as deduced from Anemometers. Osler's. Pressure in lbs. on the square foot. Least.	Wind as deduced from Anemometers. Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Wind as deduced from Anemometers. Whewell's. Velocity of the Air in miles per hour.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.		in.
Apr. 30	..	29·275	51·6	35·6	45·4	43·6	52·2	28·1	50·0	48·3	1·8	4·8	1·0	— 4·9	SSW	SW	4·8	0·0	1·5	205	0·04
May 1	..	29·047	56·0	46·3	49·2	48·5	50·0	31·0	50·6	48·5	0·7	4·2	0·0	— 1·6	SW	SW	4·2	0·0	0·9	110	0·21
2	Greatest Dec. S. Apogee	29·137	60·0	44·0	49·3	44·5	71·3	42·0	51·0	48·7	4·4	13·1	1·8	— 1·8	S	SW	6·0	0·0	1·3	175	0·09
3	..	29·356	61·0	46·0	50·5	46·1	73·3	40·2	51·8	49·0	4·8	14·4	1·3	— 0·6	SW	SW	1·5	0·0	0·2	85	0·04
4	..	29·492	64·6	40·3	51·4	42·6	88·3	32·0	53·0	49·7	8·8	17·0	2·6	— 0·4	SW; W	W	0·0	0·0	0·0	..	0·00
5	First Qr.	29·545	65·5	37·2	48·2	44·0	91·3	28·2	53·5	50·4	4·2	15·2	0·5	— 3·8	W	W; SW	3·7	0·0	0·1	..	0·01
6	..	29·453	56·0	40·6	47·9	43·9	65·2	31·3	54·0	50·5	4·0	10·3	2·2	— 4·3	SSW	SW	2·0	0·0	0·1	..	0·01
7	..	29·440	63·6	43·3	52·4	43·8	83·2	37·5	54·6	50·9	8·6	16·2	6·3	+ 0·2	SSW	SW	8·5	0·0	3·9	..	0·03
8	..	29·384	59·3	41·3	47·8	43·8	76·0	43·0	54·6	51·2	4·0	13·1	1·2	— 4·3	SW	SW; Calm	8·0	0·0	1·7	..	0·76
9	In Equator	29·624	56·6	39·9	45·0	44·5	74·0	32·0	54·0	50·9	0·5	7·8	0·0	— 7·0	Calm	Calm; NE	0·0	0·0	0·0	..	0·52
10	..	29·916	62·5	37·1	47·6	44·7	87·0	30·0	54·2	51·3	2·9	14·1	1·5	— 4·3	NNE	SW	0·0	0·0	0·0	..	0·00
11	..	29·871	58·5	42·9	49·0	43·1	68·2	36·2	54·5	51·6	5·9	12·4	2·3	— 2·8	S; SW	W	0·0	0·0	0·0	30	0·00
12	Full	30·042	67·8	38·9	52·0	46·2	91·5	32·0	55·0	52·1	5·8	14·1	2·0	+ 0·3	Calm	W	0·0	0·0	0·0	70	0·00
13	..	29·964	65·3	47·3	54·2	50·6	78·0	37·5	55·5	52·2	3·6	12·0	2·7	+ 2·5	SW	Calm	0·0	0·0	0·0	35	0·00
14	Perigee	29·950	67·8	42·2	54·7	46·3	93·8	32·8	56·8	52·7	8·4	18·6	2·6	+ 2·8	NE	NE; SE	0·0	0·0	0·0	45	0·00
15	Greatest Declination S.	29·914	67·5	46·3	55·5	45·3	94·8	34·0	57·4	53·2	10·2	15·5	1·2	+ 3·2	Calm	NNE; ESE	1·5	0·0	0·2	130	0·00
16	..	30·021	61·8	43·4	50·7	44·8	82·3	40·2	57·5	53·7	5·9	11·9	3·6	— 1·8	NE	NE	3·6	0·0	1·4	105	0·00
17	..	29·991	70·5	35·4	52·0	45·0	94·5	25·5	58·2	54·3	7·0	16·5	1·8	— 0·8	NE	N; Calm	0·0	0·0	0·0	50	0·00
18	..	29·964	56·1	43·2	47·3	45·3	64·2	36·5	58·5	54·7	2·0	7·6	1·0	— 3·9	Calm; N	NE	0·0	0·0	0·0	100	0·00
19	Last Qr.	30·100	64·0	34·8	49·0	40·4	91·0	23·5	58·2	54·7	8·6	17·9	3·4	— 4·4	Calm	NE; SE	0·0	0·0	0·0	5	0·00
20	..	29·975	69·7	38·0	54·1	45·1	97·5	28·2	58·8	55·2	9·0	17·6	2·5	+ 0·3	Calm; SW	W	0·0	0·0	0·0	30	0·00
21	..	29·679	66·0	46·0	54·2	49·8	88·0	42·0	59·0	55·7	4·4	7·7	2·9	+ 0·2	SW	SW	2·0	0·0	0·2	205	0·03
22	In Equator	29·429	62·5	47·8	53·6	50·0	73·2	44·0	59·2	55·9	3·6	9·4	1·1	— 0·7	SW	SW	6·0	0·0	1·3	155	0·14
23	..	29·464	64·0	45·7	51·3	47·1	86·2	41·0	59·5	55·9	4·2	10·4	1·1	— 3·2	SSW	WSW; SSW	3·6	0·0	0·4	135	0·28
24	..	29·597	64·8	42·6	51·0	44·7	75·0	35·5	59·5	56·2	6·3	13·1	1·4	— 3·8	SSW; SW	SW	3·4	0·0	0·5	130	0·00
25	..	29·666	61·3	40·7	50·2	43·1	84·5	32·0	59·8	56·2	7·1	13·7	3·3	— 4·8	S; SW	SW	1·2	0·0	0·3	125	0·00
26	New	29·500	66·0	42·9	51·3	45·8	89·0	37·4	59·5	56·2	5·5	10·4	2·1	— 4·0	S; SW	SW	2·4	0·0	0·3	110	0·05
27	..	29·551	59·0	44·1	49·0	47·7	74·2	38·3	59·0	55·7	1·3	5·8	0·0	— 6·5	SW; S	SW	4·0	0·0	0·8	240	0·37
28	..	29·590	63·5	44·0	52·5	46·9	83·5	38·7	59·0	56·2	5·6	12·8	1·3	— 3·3	SW	W; SW	3·0	0·0	0·4	45	0·19
29	Apogee Greatest Dec. N.	29·506	60·0	40·8	48·6	46·8	71·5	37·5	59·0	55·9	1·8	9·0	0·7	— 7·3	W	SW	4·8	0·0	0·8	160	0·56
30	..	29·685	63·8	44·8	52·8	49·0	76·5	39·0	58·8	56·1	3·8	11·6	2·1	— 3·4	W	WSW	0·0	0·0	0·0	100	0·04
31	..	29·838	68·3	44·2	54·6	52·4	91·5	36·8	59·4	56·5	2·2	16·0	1·5	— 1·8	SW	S; E	0·0	0·0	0·0	55	0·00
June 1	..	29·735	70·3	41·4	55·1	48·5	98·2	33·2	59·5	56·2	6·6	14·6	2·2	— 1·4	ENE	NE	2·0	0·0	0·6	150	0·00
2	..	29·577	57·3	49·0	51·5	50·3	64·0	45·2	60·0	56·2	1·2	4·0	1·0	— 5·3	NE	NNE	4·8	0·0	1·0	195	0·18
3	..	29·683	63·0	45·2	51·0	45·1	70·0	43·0	59·4	55·9	5·9	14·8	3·9	— 6·0	NNE	NE	4·5	0·0	1·8	200	0·00
4	First Qr.	29·950	65·0	43·2	51·5	44·5	85·5	38·2	59·2	55·9	7·0	15·2	2·9	— 5·6	NE	NE	1·0	0·0	0·0	65	0·00
5	..	29·973	64·8	43·2	51·3	46·7	85·0	36·2	58·6	55·7	4·6	12·0	2·4	— 6·0	NE	NNE	0·0	0·0	0·0	15	0·00
6	In Equator	29·919	57·5	46·6	50·2	45·4	67·5	43·0	57·8	54·7	4·8	8·5	2·3	— 7·3	NE	NNE	2·0	0·0	0·8	180	0·00
7	..	29·968	58·0	47·0	50·7	45·2	68·5	43·0	57·6	54·7	5·5	11·4	3·8	— 7·1	NNE	N	1·2	0·0	0·0	125	0·00
8	..	29·914	63·0	47·4	52·7	46·3	72·4	46·0	57·2	54·5	6·4	12·1	3·8	— 5·2	N	N; Calm	0·0	0·0	0·0	65	0·00
9	..	29·928	64·0	47·4	53·6	47·2	74·0	42·8	57·0	54·5	6·4	12·8	1·5	— 4·5	S; N	NW; SW	0·0	0·0	0·0	95	0·00
10	Full	29·790	68·4	49·4	55·8	45·5	91·5	41·8	57·5	54·7	10·3	19·8	3·7	— 2·5	SW	NW; Calm	0·0	0·0	0·0	150	0·00
11	Perigee	29·695	66·0	42·9	54·3	45·3	84·0	36·5	58·0	55·1	9·0	13·6	5·6	— 4·2	SW	SW	4·1	0·0	0·9	245	0·00
12	Greatest Declination S.	29·461	68·0	52·4	56·5	51·9	85·0	53·0	58·6	55·7	4·6	10·9	3·2	— 2·3	SW	SW	6·0	0·0	1·5	175	0·00
13	..	29·506	62·9	47·7	52·6	50·4	72·3	42·5	59·0	55·7	2·2	9·4	2·0	— 6·3	SSW	SW	4·8	0·0	0·5	150	0·17
14	..	29·595	69·2	48·8	56·7	48·7	95·5	41·2	59·4	55·7	8·0	15·3	2·0	— 2·3	SW; WSW	SW	0·0	0·0	0·0	40	0·00
15	..	29·583	62·5	48·7	54·0	52·8	65·0	43·0	59·5	56·3	1·2	3·6	0·0	— 5·2	ESE	E	0·0	0·0	0·0	10	0·12
16	..	29·591	62·0	51·5	55·2	54·0	65·0	50·0	59·6	56·5	1·2	3·4	0·4	— 4·2	ENE	E	0·0	0·0	0·0	110	0·08
17	Last Qr.	29·477	68·5	49·5	56·5	50·5	87·5	52·0	60·0	56·7	6·0	12·8	2·4	— 3·0	SW	SW	1·0	0·0	0·0	100	0·01
18	In Equator.	29·675	71·0	45·7	56·1	49·1	95·5	39·8	61·0	57·3	7·0	16·5	2·1	— 3·6	S·W	SW	0·0	0·0	0·0	70	0·00
19	..	29·809	66·7	47·1	56·1	49·4	86·5	41·2	61·5	57·9	6·7	12·6	2·0	— 3·8	SW	SSW	2·0	0·0	0·3	85	0·00
20	..	29·771	68·8	43·9	53·7	48·9	87·0	40·0	61·5	58·2	4·8	17·7	1·6	— 6·4	S	W; SW	0·0	0·0	0·0	70	0·00
21	..	29·904	68·2	46·0	55·3	49·7	88·9	39·2	61·5	58·3	5·6	14·1	1·4	— 5·0	WSW	SW; SSW	0·0	0·0	0·0	75	0·04
22	..	29·981	73·5	54·8	61·5	56·7	95·3	53·0	62·2	58·7	4·8	14·3	2·2	+ 1·1	SW	W	0·0	0·0	0·0	45	0·01
23	..	30·017	78·5	57·0	65·5	58·0	106·5	51·8	63·5	59·7	7·5	14·9	0·6	+ 4·9	W	WSW	0·0	0·0	0·0	55	0·00
24	..	30·011	78·4	53·9	62·7	57·4	104·0	48·5	64·0	59·7	5·3	15·6	1·2	+ 2·0	WSW	SW; S	0·0	0·0	0·0	25	0·00
25	New Greatest Dec. N.	29·785	80·0	54·6	67·3	60·1	104·5	48·1	65·0	61·2	7·2	16·4	2·6	+ 6·4	Calm	S; SE	0·0	0·0	0·0	60	0·00
26	Apogee	29·546	73·0	53·7	59·4	53·1	88·0	50·0	65·5	61·3	6·3	10·7	4·4	— 1·6	SE; SW	SW	4·0	0·0	1·4	220	0·01
27	..	29·643	65·8	49·5	54·6	47·0	82·8	49·2	65·8	61·3	7·6	14·8	1·8	— 6·6	SW	SW	3·6	0·0	0·6	95	0·03

May 4 to May 10. Whewell's Anemometer was under repair.

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
April [illegible]			10, r	10, r
May 1			10, r	10, r
2			10 cu.-s, ci.-s, li.-cl	7, cu.-s, ci.-s : 0
3			9, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, r
4			7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : 0
5			v, cu, ci.-cu, ci.-s,	v, r : 0
6			10, th.-r	10, ci.-s : v, ci.-s, sc
7			v, cu, cu.-s, li.-cl, shs.-r	v, : 10, cu.-s, ci.-s
8			10, cu.-s, ci.-s, r	10, cu, cu.-s, ci.-s, hl, r
9	s, sps	s, sps	10, cu, cu.-s, ci.-s, h.-r, t.-s	7, cu, cu.-s, h.-r, t.-s : 10
10	0	0	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : 0
11	0	0	10, cu.-s, ci.-s, r	10, cu.-s, ci.-s : v
12	0	0	10, cu.-s, ci.-s : v, li.-cl	v, li.-cl
13	0	0	10	10 : 0
14	v	v	0	0 : 10
15	v	v	0	7, cu.-s, ci.-s : 0
16	v	v	7, cu, cu.-s, sc	7, cu, cu.-s : 0
17	v	v	0	0 : 2, ci.-s
18	v	v	10, r	10, r : 0
19	v	v	0	5, cu, cu.-s, li.-cl : 0
20	v	v	0	7, cu, cu.-s, ci.-s : 10
21	P, N, sps	m	10, cu, cu.-s, ci.-s, r	10, cu, cu.-s, ci.-s
22	P, N, sps	P, N, sps	9, cu, cu.-s, : 10, shs.-r	10, shs.-r
23	P, N, sps	m	10, cu, cu.-s, sc, r	5, cu, cu.-s, sc : 0
24	m	m	7, cu, cu.-s, shs.-r	7, cu, cu.-s, ci.-s
25	m	m	7, cu, cu.-s	7, cu, cu.-s : 0
26	m	P, N, sps	v, cu.-s, ci.-s	v, n, shs.-r
27	P, N, sps	P, N, sps	7, cu, cu.-s, n, hl, r	7, cu, cu.-s, n, hl, r : 0
28	P, N, sps, g cur	s	10, cu.-s, ci.-s, h.-r, t.-s	10, cu.-s, ci.-s
29	P, N, sps. g cur	P, N, sps, g cur	9, cu, cu.-s, n	9, cu.-s, ci.-s, shs.-r
30	P, N, sps, g cur	P, N, sps, g cur	v, cu, cu.-s, n, hl, r	v, cu, cu.-s, n, hl, r
31	s	s	7, cu, cu.-s	7, cu, cu.-s : 0
June 1	m	P, N, sps, g cur	5, cu, ci.-cu, ci.-s	5, cu, ci.-cu, s : 10
2	P, N, sps	m	10, r	10, r
3	m	m	10, cu, ci.-cu, ci.-s, r	10, cu, ci.-cu : 0
4	w	w	7, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s
5	w	w	10, ci.-cu, ci.-s : 9	10, ci.-cu, ci.-s, th.-r
6	w	w	10 ci.-s	10, ci.-s
7	w	w	10, ci.-s	10, ci.-s
8	w	w	10, ci.-s	10, ci.-s : 9
9	w	w	10, ci.-s	10, ci -s
10	w	w	10, cu.-s, ci.-s, li.-cl	v, cu.-s, ci.-s, li.-cl
11	0	0	10	10
12	0	v	10, cu, ci.-cu, th.-r	7, cu, ci.-cu : 0
13	P, N, sps	P, N, sps	10, ci.-s, n, shs.-r	10, ci.-s shs.-r : 0
14	s	s	10. ci.-s, sc : 9	10, cu, ci.-cu, ci.-s
15	v	v	10, ci.-s, c.-r	10, ci.-s, c.-r
16	m	m	10, ci.-s, c.-r	10, ci.-s, c.-r
17	m	m	7, ci.-cu, ci.-s, li.-cl	v, ci.-cu, ci.-s, li.-cl
18	s	s	7, cu, ci.-s, li.-cl	0
19	m	m	7, cu, cu.-s, ci.-s, li.-cl	7, cu, cu.-s, ci.-s : 0
20	s	0	10, ci-cu, s, h	10, ci.-cu, s
21	0	0	10	10 : 8, m.-r
22	v	v	10, ci.-cu, ci.-s, s	10, ci.-cu, ci.-s, s : 0
23	v	v	3, ci.-cu, ci : 0	0
24	s	s	10, ci. cu, s	v
25	m	m	7, s, ci	7, cu.-s, ci.-s
26	w	w	7, ci.-cu, ci.-s, shs.- r	7, cu, cu.-s, ci.-s : 7, cu.-s, ci.-s, sc
27	N, sps, g cur	w	10, cu, cu.-s, ci.-s, shs.-r	7, cu, cu.-s, ci.-s : 3

The Electrical Apparatus was not in use from March 19 to May 9.

MONTH and DAY, 1854.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air in each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
June 28	..	29·500	68·5	49·5	56·7	50·6	87·5	46·5	65·6	61·3	6·1	14·3	5·0	— 4·6	S	S; Calm	0·0	0·0	0·0	10	0·20
29	..	29·473	71·0	48·6	56·2	50·7	91·6	43·0	64·8	61·2	5·5	16·5	0·9	— 5·3	Calm	W; SW	0·0	0·0	0·0	10	0·10
30	..	29·600	72·3	45·5	57·0	52·4	93·2	41·0	64·6	61·2	4·6	16·1	0·0	— 4·7	Calm	NW; W	0·0	0·0	0·0	35	0·02
July 1	..	29·778	61·6	51·3	53·8	52·6	65·6	51·0	64·2	61·5	1·2	7·3	0·6	— 8·0	Calm	S	0·0	0·0	0·0	15	0·16
2	..	29·815	69·8	50·2	57·8	53·0	85·0	45·2	64·0	61·2	4·8	13·2	1·7	— 4·2	S	Calm	0·0	0·0	0·0	40	0·00
3	First Quarter In Equator	29·611	70·5	54·2	60·0	54·6	92·7	53·0	64·2	61·7	5·4	10·1	2·2	— 2·1	Calm; SW	SW	1·0	0·0	0·1	95	0·02
4	..	29·458	72·5	55·4	59·5	54·6	97·2	50·5	65·0	62·2	4·9	11·7	1·4	— 2·7	SW	W	0·0	0·0	0·0	85	0·01
5	..	29·570	66·5	48·5	54·4	48·8	88·2	43·0	64·5	61·9	5·6	11·6	4·4	— 6·5	W	S	0·0	0·0	0·0	145	0·05
6	..	29·594	67·3	49·5	55·1	47·7	91·8	43·5	64·0	61·7	7·4	15·0	3·0	— 7·1	SSW	SW	1·0	0·0	0·0	45	0·12
7	..	29·630	65·0	46·6	54·5	51·0	75·0	42·0	64·0	61·3	3·5	10·4	2·6	— 7·6	SE	SE	0·0	0·0	0·0	..	0·10
8	..	29·638	68·0	51·5	56·3	51·2	91·6	48·2	63·8	61·3	5·1	13·6	1·4	— 5·7	Calm	Calm	0·0	0·0	0·0	..	0·23
9	Greatest Declination S	29·634	72·3	47·3	58·2	50·6	98·5	42·9	64·0	61·5	7·6	15·0	1·0	— 3·7	Calm	Calm	0·0	0·0	0·0	..	0·04
10	Perigee Full	29·767	66·4	49·7	56·5	53·1	80·0	46·2	63·6	61·2	3·4	8·6	2·3	— 5·3	Calm	Calm; NE	0·0	0·0	0·0	45	0·07
11	..	29·761	66·2	50·3	55·5	48·8	88·2	48·0	63·6	60·9	6·7	13·6	3·8	— 6·3	NE	N; Calm	0·0	0·0	0·0	60	0·34
12	..	29·701	57·0	50·5	52·0	51·0	58·3	48·0	63·8	60·7	1·0	3·8	0·0	— 9·9	W	NNW	0·0	0·0	0·0	70	0·41
13	..	29·702	70·0	48·6	56·9	51·0	85·0	44·2	63·5	60·7	5·9	13·2	1·8	— 5·1	Calm; W	W	0·0	0·0	0·0	80	0·00
14	..	29·620	67·5	48·8	56·1	54·1	87·0	45·0	63·6	60·7	2·0	8·0	1·3	— 6·0	SW	SW	0·0	0·0	0·0	135	0·00
15	In Equator	29·728	71·2	53·8	59·7	53·9	89·0	49·4	63·4	60·7	5·8	14·9	1·5	— 2·4	SW	NW; SW	0·0	0·0	0·0	90	0·01
16	..	29·965	76·0	51·4	62·3	56·7	98·8	44·2	64·0	60·9	5·6	16·5	1·6	+ 0·2	Calm	W	0·0	0·0	0·0	90	0·00
17	Last Qr.	29·907	71·5	53·6	60·8	51·8	82·7	50·0	64·2	61·2	9·0	15·4	2·6	— 1·3	Calm; S	SW	0·0	0·0	0·0	60	0·00
18	..	29·852	75·6	51·6	61·8	50·2	105·5	48·0	66·0	62·1	11·6	18·9	2·4	— 0·2	Calm; W	SW	0·0	0·0	0·0	105	0·00
19	..	29·864	73·1	50·7	61·0	51·6	94·7	43·0	66·0	61·9	9·4	15·9	2·1	— 0·9	S	SW	1·2	0·0	0·3	140	0·00
20	..	29·959	77·0	52·0	63·3	54·1	97·5	44·8	66·2	62·9	9·2	16·5	4·0	+ 1·4	Calm	NNE; Calm	0·0	0·0	0·0	95	0·00
21	..	30·066	81·0	51·6	65·0	52·8	105·0	48·8	66·4	63·9	12·2	22·7	0·0	+ 3·2	Calm	WSW	0·0	0·0	0·0	35	0·00
22	..	30·065	84·0	53·1	68·5	56·5	114·5	45·2	68·5	64·7	12·0	23·9	0·6	+ 6·7	SW	SW	0·0	0·0	0·0	65	0·00
23	Greatest Dec N Apogee	30·014	87·0	50·8	68·3	52·8	115·0	44·2	69·5	65·7	15·5	28·2	1·2	+ 6·5	Calm	Calm; SW	0·0	0·0	0·0	35	0·00
24	..	29·968	84·8	54·6	69·2	58·5	107·0	48·0	70·5	66·9	10·7	22·2	0·4	+ 7·3	E	Calm	0·0	0·0	0·0	80	0·00
25	New	29·931	88·7	58·3	73·0	59·2	117·6	53·0	71·5	67·7	13·8	22·1	2·7	+11·1	ENE	ENE; E	0·0	0·0	0·0	82	0·00
26	..	29·952	75·5	50·6	62·2	54·9	99·5	49·2	71·0	67·3	7·3	12·8	1·7	+ 0·2	NE	ENE	2·0	0·0	0·2	25	0·00
27	..	29·969	73·6	55·5	61·2	54·4	106·0	53·5	70·5	66·5	6·8	15·9	1·0	— 0·9	NE	ENE	0·0	0·0	0·0	95	0·03
28	..	30·079	73·5	50·6	60·4	50·0	91·7	43·0	69·5	66·2	10·4	17·0	4·4	— 1·8	NE	NE; E	0·0	0·0	0·0	85	0·01
29	..	30·019	76·5	44·0	60·1	51·8	103·5	34·5	69·0	66·2	8·3	19·5	3·9	— 2·1	E	SE	0·0	0·0	0·0	50	0·00
30	In Equator	29·797	80·5	55·2	63·4	60·3	98·8	48·8	68·8	66·2	3·1	16·5	1·4	+ 1·2	SSW	SSW	0·0	0·0	0·0	120	0·00
31	..	29·607	75·8	57·0	63·7	60·6	95·0	48·0	68·5	65·9	3·1	12·8	0·2	+ 1·7	SW	SW; SSW	0·0	0·0	0·0	150	0·06
Aug. 1	First Qr.	29·550	71·0	56·5	61·2	54·0	93·0	55·0	69·0	65·7	7·2	13·3	1·0	— 1·0	S; WSW	SW	0·0	0·0	0·0	60	0·66
2	..	29·582	72·8	48·7	60·8	53·8	82·0	40·2	68·2	65·5	7·0	12·9	0·0	— 1·4	SW	WNW; N	0·0	0·0	0·0	110	0·10
3	..	29·716	63·0	54·7	55·5	53·8	63·0	50·0	67·6	63·9	1·7	4·4	0·4	— 6·6	Calm; NE	NNE	0·0	0·0	0·0	80	1·40
4	..	29·792	57·5	49·4	51·3	51·3	57·6	43·0	67·4	63·3	0·0	3·2	0·0	—10·8	N	NW	0·0	0·0	0·0	165	0·33
5	..	29·864	58·0	51·4	53·4	51·6	60·0	50·0	65·2	61·7	1·8	4·8	1·5	— 8·7	N	NNW	0·0	0·0	0·0	100	0·17
6	Greatest Declination S	29·948	71·0	52·4	56·7	55·2	90·7	51·0	64·2	61·2	1·5	10·2	0·0	— 5·3	NNW	N; Calm	0·0	0·0	0·0	75	0·00
7	Perigee Full	29·937	66·8	50·5	56·1	51·9	78·0	44·8	64·2	60·7	4·2	10·5	1·4	— 5·9	Calm	N; Calm	0·0	0·0	0·0	10	0·00
8	..	29·893	72·5	49·7	59·9	52·1	95·5	40·3	64·2	61·2	7·8	15·1	3·2	— 2·0	Calm; NE	SSW	0·0	0·0	0·0	50	0·00
9	..	29·800	73·3	52·9	61·9	55·1	88·3	42·2	64·2	61·5	6·8	12·0	1·0	+ 0·1	Calm; SW	SW; Calm	0·0	0·0	0·0	40	0·00
10	..	29·689	75·7	55·2	61·5	55·4	83·0	47·2	64·8	62·2	6·1	14·9	2·5	— 0·3	Calm	Calm; NW	0·0	0·0	0·0	75	0·01
11	..	29·840	76·5	52·3	62·3	51·4	103·2	41·3	65·0	62·3	10·9	20·5	5·6	+ 0·6	WSW	SW	0·0	0·0	0·0	130	0·00
12	In Equator	29·812	71·6	57·5	62·4	56·6	81·5	49·8	65·0	62·5	5·8	11·7	1·0	+ 0·8	S; SW	SW	3·6	0·0	0·5	114	0·00
13	..	29·679	79·8	54·0	66·7	59·3	101·2	45·8	66·0	62·7	7·4	18·5	0·6	+ 5·3	S; SSE	SSE; Calm	0·0	0·0	0·0	35	0·00
14	..	29·643	76·5	56·6	64·2	54·7	100·9	48·8	66·5	63·5	9·5	15·3	3·0	+ 2·9	Calm	SW	1·2	0·0	0·1	90	0·00
15	Last Qr.	29·729	71·3	50·6	58·6	48·2	97·5	37·8	66·5	63·2	10·4	15·8	3·2	— 2·7	SW	SW	2·4	0·0	0·1	50	0·10
16	..	29·751	69·5	49·8	56·3	48·5	92·0	40·7	66·0	62·7	7·8	16·1	2·6	— 4·8	Calm	WSW	0·0	0·0	0·0	60	0·00
17	..	29·885	65·5	45·0	54·6	48·4	84·2	33·7	66·0	62·2	6·2	11·7	2·6	— 6·4	WSW	W	0·0	0·0	0·0	30	0·04
18	..	30·022	68·1	43·0	55·6	47·6	87·5	30·2	65·0	62·2	8·0	14·3	2·4	— 5·2	WSW	W; SW	0·0	0·0	0·0	60	0·00
19	Apogee Greatest Dec. N	29·980	75·6	50·4	63·3	51·9	103·0	35·2	65·5	62·7	11·4	18·3	5·0	+ 2·6	SW	WSW	0·0	0·0	0·0	125	0·01
20	..	29·853	78·8	57·5	64·8	58·2	102·5	45·0	65·6	62·7	6·6	15·5	2·9	+ 4·2	SW	W; S	0·0	0·0	0·0	85	0·08
21	..	29·663	72·4	54·2	62·6	57·0	81·8	44·0	65·5	63·1	5·6	10·1	1·6	+ 2·2	SSW	SW	0·0	0·0	0·0	115	0·00
22	..	29·798	73·6	50·0	60·4	48·0	96·3	39·5	65·8	62·9	12·4	21·2	2·5	+ 0·1	SW	W	0·0	0·0	0·0	140	0·00
23	New	29·968	72·0	48·5	58·2	48·7	98·0	34·0	65·2	62·7	9·5	17·3	2·2	— 2·0	WSW	SW	2·0	0·0	0·2	190	0·03
24	..	29·709	75·8	55·0	63·5	53·3	98·0	54·1	64·5	62·2	10·2	18·6	3·0	+ 3·5	WSW	WSW	5·0	0·0	0·7	205	0·02
25	..	30·104	71·8	51·0	59·2	46·4	98·2	41·0	64·4	61·9	12·8	18·9	4·4	— 0·7	W; N	N	0·0	0·0	0·0	40	0·00

July 7 to 9. Whewell's Anemometer was under repair.

MONTH and DAY, 1854.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 28	N, s : P, m	P, m : N, s	10, cu, cu.-s, r	10, cu, cu.-s, ci.-s, s, r
29	m	m	10, cu, cu.-s, s, ci, r	8, s, ci : o
30	v	v	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, t, h.-r
July 1	w	w	10, r	10, r
2	m	m	10, cu.-s, ci.-s, s	10, cu.-s, ci.-s, s
3	v	v	10. s, ci.-s, r	10, cu, ci.-cu, li.-cl
4	P, N, sps, g cur	P, N, sps, g cur	10, m.-r	10, cu, cu.-s, li.-cl, shs.-r
5	P, N, sps, g cur	P, N, sps, g cur	10, cu.-s, ci.-s	7, cu, cu.-s, ci.-s, shs.-r : 10, shs.-r
6	P, N, sps, g cur	P, N, sps, g cur	9, cu.-s, ci.-s	9, cu, cu.-s, ci.-s, s, h.-r : cu, ci.-cu, ci, shs.-r
7	P, N, sps, g cur	P, N, sps, g cur	10 : h.-r	9, cu, ci.-s, h.-r : 10, s, ci.-s
8	v, sps	v, sps	10, h.-shs.-r	7, cu, ci.-cu, ci.-s
9	m	m	10, cu, ci.-cu, li.-cl	10, ci.-cu, ci.-s, l, t, shs.-r
10	P, N, s	P, N, s	10, r	10, r
11	m	m	10, r : 9, ci.-cu, ci.-s, li.-cl	10, shs.-r
12	P, N, s	P, N, s	10, h.-r	10, h.-r : v
13	m	m	10, s, ci.-s	7, cu.-s, ci.-s, li.-cl : 10
14	s	s	10	10, m.-r
15	P, N, sps	P, N, sps	10, cu, cu.-s, ci.-s, s	10, cu, ci.-cu, ci.-s, s : r
16	m	m	5, ci.-cu, ci.-s, li.-cl	7, cu, cu.-s, ci.-s
17	m	m	10, s, ci.-s, l-shs.-r	5, cu.-s, ci.-s, s
18	m	m	o : v, cu, cu.-s	v, cu, ci.-cu, ci.-s
19	m	m	7, cu, ci.-cu, ci.-s, li.-cl	7, cu, cu.-s, ci.-s, li.-cl : o
20	m	m	10, ci.-cu, ci.-s, li.-cl	10, cu, cu.-s : v
21	m	m	o, h	o, h
22	m	m	o	o
23	m	m	o	o
24	m	m	o	2, cu, cu.-s, s : o
25	o	o	o	o
26	o	o	o	10, cu, cu.-s, s, ci.-s
27	o	o	10, cu, ci.-s, r	10
28	o	o	7, cu, cu.-s	7, cu, cu.-s li.-cl : o
29	o	o	7, cu, cu.-s, ci.-s	7, ci.-cu, ci.-s, li.-cl : v
30	o	P, N, s	10, cu, cu.-s, ci.-s	10, cu, cu.-s, t : 3, ci.-s, li.-cl
31	P, N, s	P, N, s	10, sl.-r : h.-sh.-r	7, cu, cu.-s ci.-s : 10, ci.-s
Aug. 1	P, N, s	P, N, s	10, cu, cu.-s, ci.-s, r	7, ci.-cu, ci.-s, h.-r : o
2	o	o : P, N, s	5, cu, cu.-s, ci.-s : 10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : h.-r : t.-s, h.-r
3	P, N, s, sps	P, N, s	10, h.-r	10, r
4	P, N, s	P, N, s	10, r	10, r
5	P, N, s	P, N, s	10, r	10
6			10	10, cu, cu.-s, ci.-s : 7, ci.-cu, s, ci.-s
7			10	10 : 10, ci.-cu, ci.-s
8			3, ci.-cu, ci.-s, li.-cl	3, cu, cu.-s, ci.-s : 7, s, ci.-s lu.-ha
9			10, ci.-cu, ci.-s : v	v : 10, cu, ci.-s
10			10, sl.-r	9, ci.-cu, ci
11			o	10, ci.-cu, ci, sc : v
12			10 : 10	10 : o
13			8, cu, ci.-cu, ci	8, cu, ci.-cu, ci : 10
14			10, cu, ci.-cu, ci	10, ci.-cu, ci, li.-cl : o
15			7, cu, ci.-cu, sc : sl.-r	10, ci.-cu, ci.-s, r
16			10, ci.-cu, ci.-s	10
17			o, h	v, ci.-s, sl.-r : o
18			10, cu, ci.-cu, ci	10, h.-sh.-r : 7, t, fr.-shs.-r : o
19			8, ci.-cu, ci	8, cu, cu.-s : sl.-r
20			v, cu, ci.-cu, sl.-r	v, cu, ci.-cu, ci : o
21			10 : sl.-r	10, r : 9
22			5, cu, ci.-cu, sc	5, cu, ci.-cu, sc : o
23			o : 10	10, r
24			5, cu, ci.-cu, sc	10 : o
25			7, cu, cu.-s, li.-cl	7, cu.-s, ci.-s, ci : o

August 6 to August 30. The electrical apparatus was under repair.

MONTH and DAY, 1854.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h P.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 8 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wind Wheel's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
Aug. 26	In Equator	30·223	75·0	44·7	59·9	50·7	94·7	36·3	64·0	60·3	9·2	17·3	2·8	+ 0·1	SW	N ; NW	0·0	0·0	0·0	60	0·00
27	..	30·285	80·2	54·8	67·2	59·0	108·0	45·8	63·7	60·6	8·2	17·7	5·0	+ 7·6	Calm	Calm ; N	0·0	0·0	0·0	25	0·00
28	..	30·323	85·2	62·1	70·7	60·6	110·5	57·8	64·7	61·5	10·1	21·3	1·9	+11·2	Calm	N ; Calm	0·0	0·0	0·0	40	0·00
29	..	30·287	82·7	55·1	67·4	58·3	100·7	47·0	66·2	62·2	9·1	19·5	3·0	+ 8·1	Calm	Calm ; N	0·0	0·0	0·0	10	0·00
30	..	30·080	84·8	54·9	69·3	56·8	111·0	46·5	67·3	64·2	12·5	23·6	1·2	+10·1	Calm ; WSW	WSW	0·0	0·0	0·0	50	0·00
31	First Qr.	30·075	77·2	55·1	62·1	56·0	98·5	48·2	66·7	62·0	6·1	15·0	0·6	+ 3·1	SW	NE	0·0	0·0	0·0	35	0·00
Sept. 1	..	30·183	72·5	44·6	58·3	48·4	94·5	37·0	67·7	62·0	9·9	17·3	0·7	— 0·6	N ; Calm	Calm	0·0	0·0	0·0	40	0·00
2	Greatest Declination S.	30·252	75·8	44·5	60·4	48·9	98·3	35·5	65·7	61·0	11·5	19·2	1·8	+ 1·6	Calm ; SE	E	0·0	0·0	0·0	45	0·00
3	..	30·146	80·0	45·9	60·8	52·7	102·0	38·2	68·0	64·7	8·1	21·9	0·9	+ 2·3	NE	ESE	0·0	0·0	0·0	45	0·00
4	Perigee	30·216	81·2	43·1	62·2	51·1	105·3	36·5	68·0	62·2	11·1	26·7	0·2	+ 3·8	Calm	NE ; Calm	0·0	0·0	0·0	60	0·00
5	..	30·316	73·0	45·0	58·8	52·0	92·5	37·2	68·0	62·7	6·8	11·3	2·8	+ 0·5	NE	NE	0·0	0·0	0·0	35	0·00
6	Full	30·209	77·0	43·6	58·8	49·6	97·5	34·0	67·5	63·2	9·2	21·0	0·0	+ 0·8	NE	NE ; S	0·0	0·0	0·0	15	0·00
7	..	30·112	78·2	45·2	59·0	54·9	99·5	40·5	66·5	63·2	4·1	19·5	3·0	+ 1·1	Calm	NE	0·0	0·0	0·0	10	0·00
8	In Equator	30·095	72·0	45·9	57·2	45·0	97·0	37·0	68·0	62·7	12·2	19·8	6·7	— 0·6	NE	NE	0·0	0·0	0·0	25	0·00
9	..	30·067	71·5	47·6	57·3	45·7	95·7	38·4	65·5	62·4	11·6	18·8	4·4	— 0·2	NE	NE ; Calm	0·0	0·0	0·0	5	0·00
10	..	30·092	69·2	41·9	55·0	46·8	93·5	35·2	65·0	61·7	8·2	15·6	0·0	— 2·4	Calm	Calm	0·0	0·0	0·0	5	0·00
11	..	30·056	72·5	39·4	55·6	46·9	95·3	34·2	65·0	61·7	8·7	16·2	0·5	— 1·7	NE ; Calm	Calm	0·0	0·0	0·0	15	0·00
12	..	29·866	80·5	40·4	62·3	49·2	99·0	33·0	65·0	61·7	13·1	25·1	2·2	+ 5·3	SE	SSW	2·0	0·0	0·2	140	0·09
13	..	29·767	74·7	58·4	64·1	60·7	80·0	51·3	65·3	61·7	3·4	10·1	0·0	+ 7·3	SW	SW	1·5	0·0	0·2	150	0·03
14	Last Qr.	29·655	72·0	55·6	60·8	57·0	85·0	56·2	65·0	62·2	3·8	11·8	0·2	+ 4·1	SW	W ; SW	5·0	0·0	0·3	130	0·30
15	Greatest Declination N.	29·832	73·0	51·8	61·0	54·9	93·5	45·0	65·0	62·2	6·1	14·3	0·3	+ 4·5	SW	SW	2·5	0·0	0·4	155	0·02
16	Apogee	29·720	73·0	59·6	65·8	60·8	83·0	58·4	65·0	62·2	5·0	8·5	3·7	+ 9·5	W	SW	2·5	0·0	0·1	160	0·01
17	..	29·728	75·0	55·8	63·0	56·2	95·8	53·5	65·3	62·2	6·8	15·0	2·3	+ 6·9	WSW	SW	2·0	0·0	0·0	170	0·00
18	..	29·980	69·7	49·7	58·9	49·9	88·5	43·0	65·0	62·2	9·0	13·9	3·2	+ 3·0	SW	SW	4·6	0·0	0·2	235	0·00
19	..	29·917	69·8	56·8	61·8	60·4	74·5	49·0	65·5	62·5	1·4	5·7	0·5	+ 6·0	SW	SW	4·0	0·0	0·8	180	0·07
20	..	29·840	73·5	52·2	57·6	55·7	79·0	51·4	65·5	62·7	1·9	11·9	0·0	+ 2·1	SW	N ; WSW	3·3	0·0	0·3	120	0·11
21	..	30·023	64·5	44·8	53·2	44·2	83·4	30·0	65·2	..	9·0	13·9	0·7	— 2·2	W	W ; NW	0·0	0·0	0·0	125	0·04
22	New	30·193	63·4	39·7	50·5	40·4	84·0	30·0	64·0	..	10·1	17·6	0·5	— 4·8	NW ; W	NW ; WSW	1·3	0·0	0·0	120	0·00
23	In Equator.	30·123	63·0	48·4	54·9	49·5	69·0	44·5	63·0	..	5·4	10·3	3·6	— 0·1	WSW ; NW	NW ; WSW	0·0	0·0	0·0	95	0·03
24	..	29·869	71·0	53·3	59·5	51·6	84·8	49·8	62·2	..	7·9	15·0	2·0	+ 4·7	WSW	W	7·2	0·0	2·5	150	0·00
25	..	30·196	65·0	42·8	52·6	43·4	84·3	34·0	61·0	55·7	9·2	15·6	3·3	— 2·1	NW ; W	NNW	0·0	0·0	0·0	35	0·00
26	..	30·241	68·8	39·5	53·0	45·4	88·0	35·0	60·5	57·9	7·6	16·0	0·0	— 1·4	Calm	Calm	0·0	0·0	0·0	10	0·00
27	..	30·196	70·0	40·3	55·3	47·5	90·0	33·5	60·6	57·2	7·8	17·3	2·2	+ 1·0	Calm	SE ; E	0·0	0·0	0·0	35	0·00
28	..	30·012	71·0	43·3	56·4	44·8	92·5	33·0	60·5	58·1	11·6	19·5	1·9	+ 2·4	Calm	Calm	0·0	0·0	0·0	10	0·00
29	First Quarter Greatest Dec. S	29·988	74·0	37·9	55·0	48·0	92·5	31·0	60·4	58·5	7·0	17·3	1·8	+ 1·2	Calm	Calm	0·0	0·0	0·0	..	0·00
30	..	30·033	72·0	38·7	54·9	49·5	88·0	32·0	60·0	59·2	5·4	15·0	0·0	+ 1·4	Calm	Calm	0·0	0·0	0·0	..	0·00
Oct. 1	..	30·063	65·2	42·7	51·7	51·1	72·6	35·0	60·0	..	0·6	6·1	0·0	— 1·6	Calm	Calm	0·0	0·0	0·0	15	0·00
2	Perigee	29·854	72·8	38·8	54·3	47·1	87·3	34·0	59·5	..	7·2	14·4	0·3	+ 1·2	Calm	Calm	0·0	0·0	0·0	50	0·01
3	..	29·692	66·0	47·3	54·9	46·3	77·0	36·0	59·0	..	8·6	14·8	2·2	+ 2·1	Calm ; WSW	NW	0·0	0·0	0·0	90	0·00
4	..	29·652	64·0	39·5	50·7	45·4	79·5	29·4	59·2	..	5·3	17·9	3·4	— 1·9	Calm	SW	0·0	0·0	0·0	175	0·00
5	..	29·435	72·8	53·8	60·6	51·2	93·0	46·5	58·6	56·7	9·4	13·0	2·2	+ 8·2	SW	SW	4·8	0·0	1·5	165	0·00
6	In Equator. Full.	29·430	58·5	47·6	51·5	50·9	60·0	49·0	58·8	56·5	0·6	4·4	0·0	— 0·8	SSW ; Calm	NE	0·0	0·0	0·0	100	0·60
7	..	29·843	59·5	46·8	51·6	45·0	63·0	45·0	58·6	56·2	6·6	12·6	0·9	— 0·4	NE	NE	4·0	0·0	0·5	180	0·12
8	..	29·823	62·0	47·8	54·4	51·0	77·2	43·0	58·4	55·7	3·4	11·6	0·4	+ 2·6	E	E	3·8	0·0	0·7	60	0·01
9	..	29·614	72·2	51·9	58·7	56·5	82·2	48·0	58·4	55·3	2·2	7·7	0·8	+ 7·2	E	W	0·0	0·0	0·0	80	0·01
10	..	29·896	66·0	48·5	55·8	52·2	73·0	39·8	58·0	55·3	3·6	14·4	0·6	+ 4·5	NW ; W	SW	0·0	0·0	0·0	140	0·00
11	..	30·061	60·2	47·7	51·4	46·4	72·5	49·8	58·0	55·7	5·0	8·8	3·2	— 0·4	SW	N	2·6	0·0	0·3	125	0·06
12	..	30·367	60·0	36·1	46·5	40·1	78·3	27·0	57·8	55·3	6·4	14·4	1·0	— 4·3	N	NNE	0·0	0·0	0·0	45	0·00
13	Greatest Declination N.	30·339	54·3	32·1	41·3	39·6	66·8	26·5	57·4	55·1	1·7	6·3	0·0	— 9·3	Calm	Calm	0·0	0·0	0·0	40	0·00
14	Last Quarter Apogee	30·149	54·0	40·5	48·3	47·2	58·0	34·0	57·0	54·5	1·1	4·0	0·8	— 2·1	Calm	Calm	0·0	0·0	0·0	10	0·00
15	..	30·001	53·8	48·8	50·0	49·2	53·8	40·0	56·5	54·1	0·8	2·2	0·0	— 0·2	Calm	Calm	0·0	0·0	0·0	40	0·14
16	..	29·731	56·0	43·0	47·2	40·6	71·0	43·0	56·2	53·3	6·6	12·0	1·5	— 2·7	NE	Calm	0·0	0·0	0·0	15	0·16
17	..	29·200	55·0	35·3	44·0	41·7	69·5	27·0	55·6	52·7	2·3	4·8	0·0	— 5·8	Calm	NE	1·8	0·0	1·0	150	0·00
18	..	29·214	52·0	42·3	45·3	43·5	64·0	39·5	55·4	50·7	1·8	3·3	1·0	— 4·2	NW	NW	9·5	0·0	4·0	160	0·01
19	..	29·627	50·8	35·5	42·0	37·4	68·0	29·5	55·0	50·3	4·6	14·5	0·0	— 7·3	NW ; SW	SW	2·0	0·0	0·1	155	0·02
20	In Equator	29·263	55·2	43·8	48·7	42·5	60·0	36·6	54·5	50·1	6·2	9·4	1·8	— 0·3	SW	W	3·5	0·0	0·5	110	0·47
21	New	29·491	56·5	43·0	48·6	40·9	68·0	34·0	54·0	50·0	7·7	11·8	3·0	— 0·2	WNW	NW ; SW	0·0	0·0	0·0	155	0·01
22	..	29·302	58·3	41·3	49·1	41·0	70·4	38·3	53·5	50·0	8·1	11·4	3·9	+ 0·4	SW	NW	8·0	0·0	1·6	165	0·00
23	..	29·225	57·7	39·1	46·0	39·4	78·0	31·8	53·0	49·6	6·6	14·0	0·8	— 2·4	NW	WSW	5·0	0·0	0·1	110	0·10

MONTH and DAY, 1854.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 26			3, s, ci, h	3, cu, ci.-cu, li.-cl : 10
27			10, ci.-cu, s, h	10, cu, cu.-s, ci.-s
28			7, cu.-s, ci.-s, h	7, cu, ci.-cu, ci.-s, li.-cl : o
29			o, h : 9, s, h	o : h
30			o	o
31	v	v	o : 10, s, ci.-s	10, s, ci.-s : o
Sept. 1	v	v	o : 2, ci	o
2	v	v	o : 5, s, ci	o
3	m	m	o, th.-f	o
4	m	m	o	o : f
5	m	m	5, cu, cu.-s, h : 10	10 : o
6	m	m	o	o
7	m	m	o, f	10, cu, cu.-s
8	m	m	4, cu, cu.-s, ci.-s	4, cu, cu.-s, ci : v
9	m	m	7, ci.-cu, ci.-s, s	o
10	m	m	v, cu.-s, ci.-s	v, cu, cu.-s : o, f
11	m	m	o, th.-f	3, ci.-cu, li.-cl
12	w	w	o	o
13	o	o	10, r	10 : r
14	o	o	10, r	10, ci.-s, m.-r
15	m	m	10, ci.-cu, ci.-s, li.-cl : 10	10, ci.-cu, ci.-s, sc : m.-r
16	m	m	10, s, ci.-s, li.-cl, m.-r	10 : o
17	v	v	7, cu, cu.-s, ci.-s, r	7, cu, cu.-s, ci.-s, sl.-r
18	m	o	o : 10, cu, cu.-s, ci.-s	10
19	o	o	10, r	10, m.-r
20	m	m	10, ci.-cu, ci.-s, li.-cl	10, h.-shs.-r : o, f
21	v	v	o	7, ci.-cu, ci.-s, li.-cl : o : l
22	m	o : m	o	v, ci.-cu : 10
23	o	o : w	10, r : 10	10 : m.-r
24	v	v	5, ci.-cu, ci.-s, sc	5, cu.-s, ci.-s, ci : 10, s, ci.-s : 5, r
25	m	o	o, h	3, cu, cu.-s, li.-cl : o, h
26	v	v	o, f	o
27	m	m	o, h	o
28	v	v	o	o : f
29	v	v	o, th.-f	o : th.-f
30	P, s, sps	P, s, sps	o, f	o, h
Oct. 1	v	v	10, th.-f	o, f : th.-f
2	s	s	o, f	o, f : 3, ci.-cu, ci.-s, lu.-co
3	v	v	o : v, ci.-cu, ci.-s, sc	4, s, ci.-s, li.-cl
4	m	m	v, s, ci.-s	v, s, ci
5	w	o	7, s, ci, li.-cl : 3, ci.-cu, ci	7, ci.-cu, ci
6	P, N, s	P, N, s	10, r	10, r
7	s	s	10, r	9, s, ci.-s, li.-cl : 10
8	m	m	5, s, ci.-s, li.-cl	o : 10
9	s	s	10, s, ci.-s, sc, r	8, cu, cu.-s, ci.-s : 10
10	s	s	v, f : 5, cu, cu.-s, ci.-s	v, cu, cu.-s, ci.-s
11	v, sps	v, sps	10, r : 7, ci.-cu, ci.-s	7, cu, cu.-s, ci.-s : o
12	s	s	o	o
13	s	s	10, th.-f	10
14	s	s	10, f	10, sl.-r : r
15	s	s	10, sl.-r	10 : r
16	s	s	10 : o	10
17	s : N, s	s	10, r	10, s, ci.-s
18	s	s	10, r	10, sqs.-r : sl.-r
19	s	s	7, s, ci.-s, h	7, ci.-cu, ci.-s, li.-cl
20	s	s	10, h.-r : 10, cu, cu.-s, ci.-s	10, h.-sh.-r : 10, ci.-s
21	s	s	8, ci.-cu, ci.-s, li.-cl	8, ci.-cu, ci.-s
22	o	o	10 : o	o
23	o	o : m	7, cu, ci.-cu, sc	10, ci.-cu, ci.-s, t, h.-r : v, l, sl.-r

MONTH and DAY, 1854.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs	lbs.	lbs.	miles.	in.
Oct. 24	..	29·205	54·8	35·2	44·0	38·7	73·0	27·2	53·0	48·9	5·3	11·8	0·0	— 4·2	SW	SW ; NE	0·0	0·0	0·0	40	0·18
25	..	28·955	48·0	38·5	42·4	42·4	57·0	32·5	52·2	48·8	0·0	0·0	0·0	— 5·5	NE	Calm	0·0	0·0	0·0	90	0·62
26	Perigee Greatest Dec. S.	29·578	55·0	35·3	42·6	35·4	74·0	26·8	52·0	48·3	7·2	11·6	0·3	— 5·1	Calm	Calm ; SW	0·0	0·0	0·0	10	0·16
27	..	30·168	55·0	31·3	42·6	37·3	72·0	23·5	52·0	48·1	5·3	12·0	0·3	— 4·9	SW	SW ; S	0·0	0·0	0·0	60	0·00
28	First Qr.	30·187	57·0	40·0	47·4	39·3	70·0	30·4	51·0	47·9	8·1	13·0	3·2	+ 0·1	SSE	SE	3·0	0·0	0·1	55	0·01
29	..	30·059	60·0	37·8	47·5	42·4	77·0	26·0	51·2	47·9	5·1	16·2	3·3	+ 0·5	SE	SW ; S	0·0	0·0	0·0	50	0·00
30	..	30·038	65·0	43·5	54·2	46·0	79·8	35·0	50·5	48·2	8·2	16·2	0·5	+ 7·4	SE	SSE	0·0	0·0	0·0	70	0·00
31	..	29·976	68·6	49·3	57·0	51·9	83·5	39·0	50·0	47·9	5·1	11·7	0·7	+10·5	SSE	SW	0·0	0·0	0·0	50	0·00
Nov. 1	..	30·271	61·6	39·3	48·9	46·0	75·5	32·0	50·0	48·7	2·9	12·2	0·0	+ 2·6	SW	S	0·0	0·0	0·0	15	0·00
2	In Equator	30·183	60·0	46·2	51·4	49·7	75·4	40·0	50·5	49·0	1·7	5·0	0·8	+ 5·3	SSE	Calm; S	0·0	0·0	0·0	105	0·00
3	..	30·144	54·0	39·3	44·6	36·5	63·0	32·0	50·4	48·7	8·1	12·1	5·8	— 1·3	SW ; NW	NW ; W	2·5	0·0	0·1	115	0·00
4	Full	30·033	52·0	36·1	44·3	40·2	56·5	25·0	50·0	48·4	4·1	8·0	1·6	— 1·4	SW	WSW	0·0	0·0	0·0	140	0·00
5	..	29·954	56·5	43·0	48·3	45·7	59·0	41·2	49·6	49·1	2·6	5·1	1·9	+ 2·9	NNW	W ; WSW	0·0	0·0	0·0	75	0·00
6	..	30·286	52·5	36·6	42·9	35·7	68·0	28·0	49·4	47·5	7·2	11·6	1·6	— 3·0	W	N	0·0	0·0	0·0	60	0·00
7	..	30·364	50·5	33·9	42·1	40·4	68·0	23·3	49·0	47·3	1·7	5·7	0·0	— 2·8	Calm ; SW	SW	0·0	0·0	0·0	90	0·00
8	..	30·071	50·5	35·7	43·6	40·8	56·5	26·0	48·5	47·3	2·8	6·6	0·5	— 1·2	SW	WSW	0·0	0·0	0·0	125	0·00
9	Greatest Declination N	30·129	48·6	33·4	37·3	33·5	56·0	25·5	48·5	46·1	3·8	8·6	1·9	— 7·2	NW	N	3·0	0·0	0·2	105	0·00
10	..	30·008	46·0	27·9	37·7	33·7	54·0	14·0	47·8	45·7	4·0	9·2	2·6	— 6·6	SW	SW	0·0	0·0	0·0	145	0·05
11	Apogee	29·986	49·2	40·8	44·2	40·1	54·0	30·0	47·5	46·0	4·1	6·6	0·7	+ 0·2	SW ; NW	N	0·0	0·0	0·0	80	0·03
12	Last Qr.	30·129	46·2	36·1	39·3	34·7	57·8	28·0	47·4	45·3	4·6	9·2	2·1	— 3·7	N	N ; Calm	0·0	0·0	0·0	25	0·00
13	..	29·871	48·0	30·0	39·6	35·8	51·0	20·0	47·0	45·1	3·8	8·6	0·3	— 3·8	Calm ; SE	S	2·0	0·0	0·1	150	0·00
14	..	29·449	45·0	34·7	37·1	34·8	47·0	35·0	47·0	44·8	2·3	9·2	1·0	— 6·1	SE	SE	0·0	0·0	0·0	95	0·02
15	..	28·995	52·0	31·9	43·1	39·7	59·5	29·0	47·0	44·4	3·4	6·6	1·1	+ 0·2	SE	SW	2·0	0·0	0·1	65	0·20
16	In Equator	28·955	50·0	38·9	43·9	43·4	50·5	28·0	46·6	44·4	0·5	2·0	0·0	+ 1·1	SE	Calm	0·0	0·0	0·0	15	0·27
17	..	29·280	46·5	34·1	42·5	41·3	47·5	27·0	46·2	44·4	1·2	3·6	0·0	0·0	N	NE	0·0	0·0	0·0	125	0·13
18	..	29·591	45·0	38·8	40·4	33·2	48·5	37·0	45·6	43·9	7·2	10·6	5·3	— 2·0	NE	NE	3·5	0·0	1·8	165	0·00
19	..	29·947	43·2	37·2	39·6	34·1	45·8	35·0	46·0	43·5	5·5	7·7	2·8	— 2·6	NE	NNE	0·0	0·0	0·0	135	0·00
20	New	30·010	42·2	34·4	37·7	33·7	45·0	27·0	45·2	41·1	4·0	7·2	3·1	— 4·3	NE	NE	0·0	0·0	0·0	65	0·00
21	..	29·478	44·2	35·0	38·6	33·7	44·8	31·6	45·0	43·0	4·9	9·0	0·5	— 3·3	SW	SW	2·0	0·0	0·3	150	0·19
22	Perigee	28·846	44·0	31·9	35·7	34·7	46·0	28·0	44·5	42·5	1·0	4·0	0·0	— 6·1	SW	W	0·0	0·0	0·0	60	0·00
23	Gr. West Declination S.	28·977	41·2	30·8	33·9	32·9	42·3	21·0	44·2	42·1	1·0	7·2	0·0	— 7·9	SW	NE	0·0	0·0	0·0	35	0·01
24	..	29·107	43·2	28·4	34·5	33·2	46·5	16·0	44·0	41·5	1·3	6·0	0·8	— 7·1	N	N	0·0	0·0	0·0	100	0·00
25	..	29·415	41·0	31·5	35·8	33·7	41·0	19·5	43·5	41·4	2·1	6·0	0·8	— 5·9	N	N	0·0	0·0	0·0	115	0·02
26	..	29·768	39·4	30·1	33·2	32·4	44·5	23·0	43·5	40·8	0·8	5·0	0·0	— 8·6	N	N	0·0	0·0	0·0	10	0·00
27	First Qr.	29·846	34·0	25·9	28·5	28·5	38·0	26·0	43·0	40·3	0·0	2·6	0·0	—13·4	Calm ; SW	SW	0·0	0·0	0·0	85	0·00
28	..	29·509	44·5	31·5	39·1	37·3	44·8	25·0	43·0	40·3	1·8	3·8	1·5	— 2·8	SW	SW	3·0	0·0	0·5	255	0·15
29	In Equator	29·951	50·5	40·5	44·4	36·1	54·2	33·5	42·5	40·7	8·3	11·5	0·0	+ 2·5	SW	SW ; W	12·0	0·0	1·5	135	0·17
30	..	29·307	49·0	34·6	40·8	37·5	55·0	26·5	42·5	40·8	3·3	8·1	1·3	— 1·0	SW	SW	3·0	0·0	0·2	155	0·17
Dec. 1	..	29·475	51·0	38·9	42·3	34·4	52·4	28·0	42·2	40·8	7·9	8·4	4·6	+ 0·6	W	W	0·0	0·0	0·0	185	0·00
2	..	29·798	45·0	34·2	40·3	31·7	48·0	28·2	42·0	40·8	8·6	11·2	3·1	— 1·3	WSW	W	2·0	0·0	0·3	160	0·00
3	..	29·723	49·8	37·4	45·9	43·1	54·0	28·0	42·0	40·8	2·8	6·2	1·1	+ 4·4	W	WSW	3·0	0·0	0·8	275	0·00
4	Full	29·910	50·2	42·3	45·2	36·2	56·6	28·5	42·0	40·8	9·0	11·7	3·8	+ 3·8	W	W ; SW	3·3	0·0	0·3	290	0·00
5	..	29·356	50·0	40·1	45·3	41·2	51·5	32·5	42·0	41·2	4·1	7·0	0·0	+ 4·0	SW	SW	4·8	0·0	1·3	245	0·10
6	Greatest Declination N	29·415	45·5	34·9	39·5	34·0	50·3	27·0	42·0	41·4	4·6	8·7	2·9	— 1·6	SW	W	0·0	0·0	0·0	165	0·00
7	..	30·010	42·0	31·0	35·8	32·2	49·0	25·0	42·0	41·2	3·6	7·2	0·7	— 5·2	N	W	0·0	0·0	0·0	125	0·01
8	Apogee	29·633	49·5	30·7	43·4	42·4	48·2	21·0	42·0	41·0	1·0	4·6	0·0	+ 2·6	SSW	SW	0·0	0·0	0·0	165	0·07
9	..	29·363	45·0	35·9	40·0	34·2	49·0	31·0	42·0	41·2	5·8	11·5	1·0	— 0·7	W	NNW	3·6	0·0	0·8	225	0·03
10	..	29·822	40·7	31·4	34·7	30·3	47·3	25·1	41·5	40·8	4·4	8·9	3·0	— 5·9	NNW	N	2·2	0·0	0·5	93	0·00
11	..	29·871	43·4	26·5	35·9	32·3	49·5	20·2	41·5	40·8	3·6	6·5	3·3	— 4·6	SW	SSW	2·4	0·0	0·3	160	0·00
12	Last Qr.	29·99.	44·9	34·1	38·7	34·9	52·0	26·8	41·5	40·7	3·8	6·9	1·6	— 1·6	WSW	SW	2·0	0·0	0·2	150	0·01
13	..	30·018	51·0	37·4	44·9	41·0	52·0	29·2	42·4	41·0	3·9	6·5	1·7	+ 4·7	WSW ; SSW	SSW	3·6	0·0	0·8	265	0·03
14	In Equator	29·840	55·0	48·4	51·7	49·3	54·8	38·5	42·0	40·3	2·4	4·4	0·8	+11·7	S by W	WSW	4·0	0·0	1·3	290	0·01
15	..	29·822	54·0	45·6	50·3	43·6	61·9	42·5	43·4	41·2	6·7	10·0	5·5	+10·5	SW	W	10·0	0·0	2·5	325	0·00
16	..	29·705	53·0	38·1	43·3	38·3	53·0	40·0	43·5	42·1	5·0	8·1	2·8	+ 3·7	WSW	NW	4·8	0·0	1·0	165	0·02
17	..	29·699	44·0	32·5	38·4	35·4	44·8	26·4	..	..	3·0	8·5	2·0	— 1·0	W	SW	0·0	0·0	0·0	155	0·02
18	..	29·049	44·8	32·4	37·1	34·2	48·7	31·5	..	..	2·9	7·0	0·2	— 2·2	SW	SW ; N	6·0	0·0	1·7	245	0·08
19	New	29·536	38·2	31·3	34·5	29·0	44·4	23·8	..	..	5·5	8·8	3·9	— 4·6	N	NW ; SW	3·0	0·0	0·2	105	0·00
20	Greatest Declination S.	29·527	43·0	36·8	39·9	36·4	45·0	23·9	..	..	3·5	8·3	0·2	+ 1·0	NW	NW ; N	4·0	0·0	0·5	140	0·42
21	Perigee	29·926	49·8	29·2	39·3	38·3	49·8	20·8	..	..	1·0	3·6	0·5	+ 0·6	SW	WSW	0·0	0·0	0·0	210	0·12

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Oct. 24	P, s	N, s	3, cu, ci.-cu : 10	10, ci.-s : r
25	N, s	N, s	10, sl.-r	10, r
26	o	N, s : m	o	10, r : o, f
27	v	v	o	o
28	o	s	4, ci.-cu, ci.-s	4, ci.-cu
29	s	s	o	o : 10, lu.-ha
30	m	m	o	o
31	s	s	o	3, s, ci : 7, r : o
Nov. 1	s	s	o, f	o : 10, th.-f
2	w	w	10, f	o : v, ci.-s, sc
3	v	v	o	3, ci, li.-cl
4	s	s	10, f	10, f
5	v	v	10, m.-r	o
6	m	m	o, f	o : lu.-co
7	s, sps	s, sps	10, f : 8	10, f
8	s, sps	s, sps	10	10 : m.-r
9	v	N, s : v	o : v, cu	v, cu, cu.-s, ci.-s, sl.-r : 2, li.-cl
10	w	w	7, s, ci.-s	7, s : 10, r
11	o	o	10, sl.-r	10, s, ci.-s, sc : f
12	o	o	10, ci.-cu, ci.-s	o : 10
13	m	m	10, ci.-s	10
14	w	N, s, sps : s	:o, oc.-r	10
15	N, s : m	m	10, r	7, ci.-cu, ci.-s : o
16	s	N, s : s	10 : r	10, ci.-cu, ci.-s : v, f
17	N, s	m	10, r, f	10
18	m	m	10	8, ci.-cu, ci.-s : 10
19	m	m	10	10
20	v	v	10, sl, r	10, shs.-r
21	m	m	10	10, shs.-r
22	s	s	10, s, ci.-s	10 : o, f
23	s, sps	s, sps	10	10, s, ci.-s, f : o, f
24	s	s	10, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
25	v	v	10	10 : sl.-r
26	s	s	o : 10	10
27	s	s	10, th.-f	10, th.-f : v, sn
28	s	s	10, f	10, m.-r
29	m	N, s, sps : m	v, cu, cu.-s : 10	10, ci : lu.-ha
30	o	o	o, h	10, ci.-s, sc : r
Dec. 1			2, ci.-cu, ci.-s, s	10, ci.-cu, ci.-s, sl.-r : lu.-co
2			10, ci.-cu, ci.-s, li.-cl	10, ci.-cu, ci.-s : v, lu-ha
3	s	s	10, s, ci.-s	10, s, ci.-s : v, s, sc, lu.-co
4	s	s	o	o : v, ci.-cu, sc
5	s	s	10	10, r : v, lu.-ha
6	s	s	v	v : lu.-co
7	s	s	o	o, h
8	s	s	10 : m.-r	10 : m.-r
9	s	o	10	10 : v, r
10	s	s	o	o
11	s	s	2, ci	2, ci : 10
12	s	s	o, h	o
13	s	s : o	10, r	10 : m.-r
14	o	o	10, r	10, r : 5 : o
15	o	o	o	o
16	o	o	5	10 : o, h
17	m	m	o, h	10
18	m	m	10, r	v
19	m	m	o, f : so.-ha, so.-co	10, ci.-s : m.-r
20	m	m	10, r	10, r
21	m	m	10 : r	10, r

December 1 and 2. The electrical apparatus was out of order.

MONTH and DAY, 1854.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Same as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest in the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 25 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.																lbs.	lbs.	lbs.	miles	in.
Dec. 22	..	29·672	54·3	48·2	51·5	47·9	55·0	32·5	..	..	3·6	4·6	0·0	+13·0	W	WSW	8·0	0·0	1·5	250	0·05
23	..	29·752	53·6	39·0	42·9	40·0	53·7	28·4	..	..	2·9	6·0	0·7	+ 4·5	NW	WSW; NW	0·0	0·0	0·0	80	0·02
24	..	29·744	47·8	36·3	42·8	40·2	52·5	27·0	42·8	41·8	2·6	6·2	0·8	+ 4·6	W	W	0·0	0·0	0·0	230	0·00
25	..	29·360	55·0	41·6	47·4	44·1	57·7	37·5	43·0	41·6	3·3	5·3	2·2	+ 9·6	SW; W	SW	4·8	0·0	0·8	220	0·13
26	First Quarter In Equator	29·712	46·0	37·3	40·6	34·8	48·0	30·0	43·5	41·4	5·8	11·0	3·6	+ 2·8	SW	W	3·0	0·0	0·3	225	0·00
27	..	29·757	41·8	33·8	36·3	31·6	45·0	28·8	43·4	41·4	4·7	8·5	2·5	— 1·3	W	W	2·0	0·0	0·1	80	0·01
28	..	30·284	38·5	29·4	33·1	29·7	39·2	23·2	43·0	41·2	3·4	6·8	1·9	— 4·3	N	N; W	0·0	0·0	0·0	45	0·00
29	..	30·362	41·5	29·3	36·1	33·5	41·5	22·2	43·0	41·0	2·6	3·5	1·9	— 1·2	WSW	W	0·0	0·0	0·0	105	0·00
30	..	30·322	46·5	40·0	42·6	37·6	48·0	32·4	43·0	40·7	5·0	8·2	3·5	+ 5·6	W	WSW; W	0·0	0·0	0·0	85	0·00
31	..	30·143	45·6	36·5	41·9	35·4	47·8	30·3	42·8	41·2	6·5	9·4	3·3	+ 5·2	W	W	0·0	0·0	0·0	300	0·00

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 22	m	m	10, s, ci.-s	10
23	m	m	4, ci : 10, ci.-cu, s, ci.-s	10 s, ci.-s : m.-r
24	m	m	10	10
25	m	m	10, m.-r	10, s, ci.-s, oc.-r
26	m	m	0	3, s, ci : 0
27	m	m	4, ci.-cu, s, ci.-s	4, ci.-cu, ci.-s, sc : 10, sl.-r, sn
28	m	m	0	0, h
29	m	m	10	10
30	m	m	10	10 : v, lu-ha
31	m	m	10, s : sl.-r	10

Maxima and Minima Readings of the Barometer.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may be sometimes sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1854.		Reading.	Approximate Mean Solar Time, 1854.		Reading.	Approximate Mean Solar Time, 1854.		Reading.	Approximate Mean Solar Time, 1854.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	11. 9. 0	29·777	January	7. 9. 0	28·809	August	6. 10. 20	29·968	July	31. 9. 0	29·527
	18. 0. 0	30·047		13. 9. 0	29·506		18. 9. 0	30·040	August	13. 21. 0	29·617
	20. 2. 10	30·158		19. 9. 0	29·821		22. 21. 0	30·019		21. 9. 0	29·635
	26. 9. 0	30·450		24. 3. 0	29·451		28. 21. 0	30·340		24. 3. 0	29·781
	30. 21. 0	30·091		28. 22. 0	29·704	September	5. 0. 0	30·328		30. 9. 0	30·012
February	2. 21. 0	30·215	February	0. 21. 0	29·825		25. 21. 0	30·266	September	13. 21. 0	29·589
	10. 0. 0	30·147		4. 9. 0	29·730	October	7. 9. 0	29·963	October	5. 3. 0	29·394
	13. 21. 0	30·545		11. 22. 30	30·060		12. 21. 0	30·439		9. 3. 0	29·586
	23. 9. 0	30·466		17. 9. 0	29·302		19. 0. 0	29·667		17. 21. 0	29·107
March	4. 9. 0	30·669		24. 9. 0	30·183		27. 9. 0	30·231		25. 3. 0	28·872
	16. 21. 0	30·338	March	10. 0. 0	29·929	November	1. 9. 0	30·289		30. 21. 0	29·950
	21. 21. 0	30·406		18. 9. 0	29·864		7. 0. 0	30·415	November	4. 22. 30	29·888
April	3. 9. 0	30·428		25. 22. 30	29·783		12. 3. 30	30·135		10. 21. 0	29·904
	17. 0. 0	30·136	April	15. 3. 0	29·872		19. 21. 0	30·040		15. 21. 0	28·883
	24. 9. 0	30·317		21. 9. 0	29·266		27. 9. 0	29·935		22. 3. 0	28·813
May	11. 21. 0	30·069	May	1. 3. 0	29·037		29. 21. 0	29·409		29. 0. 0	28·869
June	4. 9. 0	30·000		22. 9. 0	29·394	December	4. 3. 0	29·940		30. 9. 0	29·075
	15. 21. 0	29·639	June	12. 0. 0	29·436		7. 9. 0	30·075	December	5. 9. 0	29·212
	23. 21. 0	30·044		16. 21. 0	29·458		12. 21. 0	30·097		8. 21. 0	29·325
July	1. 22. 40	29·839		29. 3. 0	29·472		20. 21. 0	30·014		17. 21. 0	28·864
	21. 21. 0	30·097	July	4. 3. 0	29·445		29. 9. 0	30·384		24. 23. 0	29·487

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1854.

1854. MONTH.	Mean Reading of the Barometer.	Temperature of the Air: Highest	Lowest	Range in the Month	Mean of all the Highest	Mean of all the Lowest	Mean Daily Range	Mean Temp.	Mean Temp. of Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of air.	Mean additional Weight required to saturate a cubic foot of air.	Mean Degree of Humidity (complete saturation = 1)	Wind: Mean weight of a cubic foot of air.	Prevailing Direction.	Mean Daily Horary Motion of the Air in Miles.	Mean Daily Horary Motion of the Air in Miles.	Mean Amount of Cloud.	Rain: Number of Days on which it fell.	Rain: Amount collected on the Ground.
	in.	°	°	°	°	°	°	°	°	in.	gr.	gr.		gr.						in.
January	29·618	54·8	13·5	41·3	44·7	33·9	10·8	39·0	36·1	·234	2·7	0·3	·917	546	NE ; SW	0·47	111	7·8	15	1·4
February	30·041	57·0	23·5	33·5	47·2	33·6	13·6	39·2	33·6	·218	2·6	0·5	·843	554	E ; NE	0·21	123	6·8	9	1·2
March	30·186	64·2	25·5	38·7	54·6	35·4	19·2	43·5	37·4	·236	2·8	0·7	·795	551	NE ; SE	0·46	84	6·0	6	0·3
April	29·985	77·5	28·3	49·2	61·9	38·2	23·7	48·4	45·0	·274	3·1	0·9	·775	542	NE	0·46	78	4·7	7	0·6
May	29·667	70·5	34·8	35·7	63·7	42·4	21·3	50·9	48·6	·327	3·7	0·7	·850	534	SW	0·48	100	6·9	17	3·5
June	29·735	78·5	41·4	37·1	67·5	48·3	19·2	55·7	52·7	·371	4·2	0·9	·825	529	SW	0·31	104	8·2	12	0·9
July	29·807	88·7	44·0	44·7	73·1	51·5	21·6	60·3	53·6	·413	4·6	1·3	·783	525	Var.	0·02	76	7·4	15	1·8
August	29·889	85·2	43·0	42·2	73·1	52·4	20·7	60·9	53·3	·416	4·7	1·4	·771	526	SW	0·50	78	6·8	12	2·6
September	30·031	81·2	37·0	43·3	72·2	46·5	25·7	58·1	50·4	·375	4·3	1·3	·770	532	SW ; NE	0·20	75	4·2	9	1·0
October	29·724	72·8	31·3	41·5	59·6	42·1	17·5	49·4	44·5	·309	3·6	0·6	·846	536	Var.	0·30	87	6·4	11	2·4
November	29·728	61·6	25·0	35·7	47·7	35·0	12·7	40·5	37·9	·245	2·9	0·3	·916	547	SW	0·21	100	7·2	13	1·9
December	29·768	55·0	26·5	28·5	47·1	36·1	11·0	41·3	37·0	·239	2·8	0·4	·872	546	SW	0·50	186	5·9	16	1·4
Means	29·848	70·6	31·3	39·3	59·4	41·3	18·1	48·9	44·2	·305	3·5	0·8	·830	539	–	–	–	6·5	Sum 132	Sum 19·0

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Days of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°		°	°	°	°
1	*S*	50·66	49·87	49·00	48·46	48·40	48·63	49·18	49·98	*S*	51·49	51·66
2	51·43	50·62	49·74	*S*	48·46	48·40	*S*	49·20	50·03	50·41	51·50	51·66
3	51·38	50·58	49·70	48·95	48·47	48·40	48·65	49·20	*S*	50·84	51·46	*S*
4	51·38	50·54	49·68	48·94	48·45	*S*	48·67	49·24	50·08	50·85	51·44	51·65
5	51·36	*S*	*S*	48·82	48·45	48·36	48·38	49·25	50·10	50·91	*S*	51·60
6	51·34	50·34	49·60	48·90	48·44	48·40	48·70	*S*	50·16	50·90	51·59	51·65
7	51·37	50·47	49·37	48·88	*S*	48·40	48·62	49·30	50·10	50·93	51·60	51·64
8	*S*	50·38	49·58	48·86	48·44	48·43	48·74	49·35	50·19	*S*	51·61	51·65
9	51·30	50·38	49·62	*S*	48·42	48·43	*S*	49·38	50·25	51·02	51·63	51·70
10	51·26	50·37	49·53	48·80	48·43	48·44	48·76	49·42	*S*	51·03	...	*S*
11	51·24	50·30	49·52	48·80	48·42	*S*	48·78	49·46	50·30	51·10	51·60	51·63
12	51·20	*S*	*S*	48·77	48·43	48·40	48·78	49·48	50·30	51·05	*S*	51·61
13	...	50·24	49·51	48·75	48·43	48·45	48·80	*S*	50·35	51·09	51·66	51·61
14	51·17	50·20	49·42	Good Friday.	*S*	48·44	48·86	49·53	50·34	...	51·60	51·63
15	*S*	50·20	49·40	48·74	48·42	48·46	48·88	49·56	50·38	*S*	51·68	51·69
16	51·12	50·13	49·38	*S*	48·40	48·46	*S*	49·58	50·42	51·15	51·60	51·60
17	51·11	50·15	49·35	48·70	48·40	48·50	48·90	49·60	*S*	51·70	51·65	*S*
18	51·08	50·05	49·32	48·73	48·40	*S*	48·92	49·62	50·48	51·30	51·65	51·55
19	51·04	*S*	*S*	48·68	48·40	48·50	48·93	49·67	50·46	51·20	*S*	51·53
20	51·03	50·03	49·25	48·65	48·40	48·48	48·95	*S*	50·52	51·25	51·60	51·59
21	51·00	50·00	49·23	48·64	*S*	48·54	48·96	49·72	50·55	51·25	51·63	51·52
22	*S*	50·00	49·22	48·60	48·40	48·54	49·00	49·74	50·57	*S*	51·65	51·63
23	50·88	49·93	49·19	*S*	48·38	48·60	*S*	49·77	50·56	51·30	51·63	51·47
24	50·90	49·90	49·15	48·56	48·40	48·57	49·05	49·81	*S*	51·39	51·64	*S*
25	50·86	49·88	49·13	48·56	48·40	*S*	49·12	49·78	50·63	51·34	51·65	Christ. Day.
26	50·80	*S*	*S*	...	48·43	48·58	49·07	49·85	50·70	51·35	*S*	51·43
27	50·81	49·83	49·08	48·54	48·39	48·58	49·08	*S*	50·75	51·40	51·64	51·40
28	50·77	49·80	49·08	48·60	*S*	48·60	49·10	49·93	50·72	51·44	51·67	51·38
29	*S*		49·05	48·50	48·38	48·62	49·14	49·94	50·74	*S*	51·69	51·36
30	50·77		49·03	*S*	48·40	48·63	*S*	49·95	50·74	51·49	51·65	51·37
31	50·73		49·00		48·40		49·18	49·97		51·50		*S*

The letter *S* denotes that the day was Sunday.

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

February 6, March 7, July 5, October 2, the readings seem to be too low.

October 17, the reading is too high by 0°·5.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01 than the monthly mean of all the observations: in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Days of the Month. 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	46·48	45·85	45·65	46·90	48·44	50·24	52·60	54·50	*S*	54·40	51·95
2	48·94	46·40	45·78	*S*	47·03	48·48	*S*	52·70	54·65	55·45	54·30	51·84
3	48·35	46·50	45·74	45·67	47·06	48·56	50·46	52·73	*S*	55·45	54·15	*S*
4	48·70	46·38	45·72	45·68	47·12	*S*	50·56	52·80	54·65	55·40	54·06	51·60
5	48·64	*S*	*S*	45·68	47·15	48·67	50·63	52·90	54·68	55·48	*S*	51·60
6	48·48	46·34	45·64	45·68	47·17	48·70	50·72	*S*	54·77	55·38	54·00	51·43
7	48·55	46·38	45·63	45·68	*S*	48·78	50·80	53·15	54·68	55·35	53·91	51·32
8	*S*	46·30	45·63	45·70	47·27	48·86	50·88	53·25	54·85	*S*	53·85	51·25
9	48·22	46·30	45·72	*S*	47·27	48·90	*S*	53·38	54·91	55·40	53·75	51·15
10	48·14	46·42	45·57	45·76	47·30	48·95	51·24	53·45	*S*	55·35	...	*S*
11	47·97	46·28	45·54	45·78	47·33	*S*	51·14	53·57	55·02	55·31	53·65	50·96
12	47·88	*S*	*S*	45·80	47·38	49·08	51·10	53·62	55·06	55·24	*S*	50·85
13	...	46·28	45·62	45·87	47·44	49·14	51·25	*S*	55·01	55·25	53·40	50·79
14	47·65	46·23	45·47	GoodFriday.	*S*	49·20	51·38	53·77	55·08	...	53·40	50·75
15	*S*	46·37	45·46	45·76	47·48	49·26	51·47	53·78	55·15	*S*	53·35	50·68
16	47·47	46·20	45·47	*S*	47·54	49·26	*S*	53·81	55·20	55·15	53·21	50·55
17	47·38	46·33	45·47	46·08	47·56	49·40	51·55	53·85	*S*	55·12	53·20	*S*
18	47·30	46·18	45·52	46·22	47·58	*S*	51·64	53·92	55·28	55·06	53·10	50·32
19	47·18	*S*	*S*	46·18	47·66	49·53	51·70	54·02	55·25	55·03	*S*	50·25
20	46·98	46·18	45·47	46·25	47·70	49·54	51·75	*S*	55·32	55·05	52·85	50·17
21	47·03	46·15	45·47	46·30	*S*	49·64	51·83	54·07	55·33	54·94	52·81	50·10
22	*S*	46·25	45·48	46·35	47·75	49·67	51·90	54·10	55·35	*S*	52·75	50·10
23	46·87	46·06	45·55	*S*	47·80	49·86	*S*	54·15	55·34	54·92	52·60	49·90
24	46·78	46·03	45·54	46·42	47·82	49·84	52·03	54·22	*S*	54·85	52·55	*S*
25	46·70	45·97	45·55	46·54	47·92	*S*	52·18	54·20	55·40	54·75	52·46	Christ. Day.
26	46·68	*S*	*S*	...	48·12	49·92	52·12	54·28	55·48	54·71	*S*	49·66
27	46·66	45·90	45·50	46·66	48·10	49·97	52·15	*S*	55·54	54·67	52·28	49·56
28	46·60	45·87	45·55	46·83	*S*	50·07	52·25	54·45	55·47	54·65	52·25	49·50
29	*S*		45·66	46·78	48·15	50·15	52·35	54·42	55·45	*S*	52·19	49·44
30	46·64		45·77	*S*	48·27	50·20	*S*	54·47	55·44	54·50	52·05	49·42
31	46·52		45·70		48·36		52·50	54·50		54·55		*S*

The letter *S* denotes that the day was Sunday.

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

January 3. The reading seems to be too low by 0°·5

January 6. The reading seems to be too low.

February 3, 10, and 22. The readings seem to be a little too high.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be of the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0°·01; in seven cases the excess amounted to 0°·02; in four cases to 0°·03; and in one case to 0°·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Days of the Month. 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	43·90	43·63	45·00	48·77	51·60	54·08	58·80	59·20	*S*	53·40	48·50
2	44·36	44·00	43·40	*S*	48·70	51·58	*S*	58·90	59·25	58·10	53·30	48·35
3	44·10	44·22	43·46	45·22	48·70	51·68	55·28	58·10	*S*	58·00	53·12	*S*
4	43·84	44·00	43·45	45·35	48·58	*S*	55·30	59·20	59·00	57·80	53·04	48·08
5	43·78	*S*	*S*	45·50	48·65	51·90	55·30	59·10	58·95	57·70	*S*	48·10
6	43·60	44·38	43·30	45·67	48·58	51·92	55·44	*S*	59·50	57·60	53·00	47·98
7	43·57	44·32	43·40	45·82	*S*	52·00	55·30	59·60	58·95	57·30	52·87	47·91

(III.)—Reading of a Thermometer whose bulb is sunk to the [illegible]—*continued*

Days of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												°
8	*S*	44·30	43·40	46·00	48·82	52·10	55·57	58·80	59·30	*S*	52·80	47·91
9	42·12	44·38	43·61	*S*	48·90	52·18	*S*	[illegible]	[illegible]	57·20	52·60	47·80
10	43·00	44·50	43·38	46·30	49·00	52·27	55·64	[illegible]	*S*	57·08	. . .	*S*
11	42·80	44·48	43·58	46·50	49·08	*S*	55·70	58·80	58·00	56·95	52·30	47·60
12	42·80	*S*	*S*	46·68	[illegible]	52·37	55·68	58·65	58·90	56·82	*S*	47·50
13	. . .	44·37	44·02	46·88	49·18	52·40	55·78	*S*	58·00	56·80	51·78	47·35
14	42·75	44·28	44·10	Good Friday.	*S*	52·58	55·84	58·80	57·90	. . .	51·63	47·25
15	*S*	44·25	44·28	47·10	[illegible]	[illegible]	55·88	58·83	[illegible]	*S*	51·50	47·15
16	42·70	44·03	44·40	*S*	49·48	[illegible]	*S*	58·85	57·80	56·30	51·20	47·00
17	42·77	44·02	44·58	[illegible]	49·64	[illegible]	55·80	58·87	*S*	56·20	51·40	*S*
18	42·77	43·80	44·70	47·78	[illegible]	*S*	55·98	58·87	58·00	56·10	[illegible]	47·28
19	42·80	*S*	*S*	47·90	50·00	53·10	56·00	[illegible]	58·00	55·81	*S*	47·10
20	42·92	43·62	[illegible]	[illegible]	50·28	53·18	56·12	*S*	58·00	55·95	[illegible]	47·10
21	43·10	43·50	44·87	48·20	*S*	53·38	56·30	58·85	58·20	55·50	50·46	47·00
22	*S*	43·60	44·98	48·32	[illegible]	53·50	[illegible]	58·80	59·23	*S*	50·31	46·90
23	43·31	43·67	44·90	*S*	50·70	53·70	*S*	58·80	59·20	[illegible]	50·67	46·65
24	43·42	43·30	44·90	48·70	50·88	53·72	56·90	58·83	*S*	[illegible]	49·95	*S*
25	43·40	43·37	44·88	48·88	[illegible]	*S*	57·25	58·80	59·10	54·75	[illegible]	Christ. Day
26	43·58	*S*	*S*	. . .	51·10	54·00	57·40	58·83	[illegible]	54·60	*S*	46·52
27	43·55	43·42	44·90	48·90	51·20	[illegible]	57·50	*S*	58·88	54·42	49·30	46·52
28	43·68	43·45	44·90	48·92	*S*	[illegible]	57·90	58·90	58·80	[illegible]	49·15	46·52
29	*S*		44·84	48·80	[illegible]	[illegible]	58·00	[illegible]	58·70	*S*	48·93	46·50
30	43·82		44·70	*S*	51·48	54·80	*S*	[illegible]	[illegible]	53·90	48·68	46·40
31	43·90		44·90		[illegible]		58·40	[illegible]		53·70		*S*

The letter *S* denotes that the day was Sunday.

January 13. April 14 and 26. October 14. and November 12. the instrument was not read.

September 6, 12. The readings seem to be too high.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all the observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d												
1	*S*	42·60	40·70	44·38	48·28	53·22	[illegible]	63·40	63·20	*S*	50·91	43·85
2	38·00	42·97	40·60	*S*	48·30	53·40	*S*	63·40	63·10	57·53	51·10	43·91
3	37·88	42·97	40·60	45·30	48·48	53·70	58·30	62·80	*S*	57·28	51·10	*S*
4	37·67	42·32	40·56	45·70	48·70	*S*	58·40	62·40	62·90	57·00	51·00	43·80
5	37·45	*S*	*S*	45·80	49·00	53·70	58·50	61·70	[illegible]	56·88	*S*	44·15
6	37·38	41·68	40·45	46·00	49·27	[illegible]	58·60	*S*	62·65	56·82	50·60	44·25
7	37·52	42·18	40·48	46·40	*S*	53·90	58·48	60·60	62·80	56·88	50·20	44·12
8	*S*	42·70	40·60	[illegible]	49·60	53·80	58·30	60·50	62·20	*S*	49·70	43·80
9	37·40	42·65	41·32	*S*	49·60	53·80	*S*	60·50	62·20	[illegible]	[illegible]	[illegible]
10	37·55	42·45	42·00	47·50	[illegible]	[illegible]	58·40	[illegible]	*S*	56·53	. . .	*S*
11	37·65	41·84	42·85	47·80	[illegible]	*S*	58·42	60·87	61·90	56·70	48·39	43·30
12	37·77	*S*	*S*	47·88	49·68	[illegible]	58·28	60·92	61·68	56·60	*S*	42·73
13	. . .	41·08	43·63	48·10	[illegible]	54·70	58·22	*S*	61·01	56·18	47·88	42·60
14	38·12	40·70	43·76	Good Friday.	*S*	54·88	58·02	61·50	61·48	. . .	47·65	42·60
15	*S*	40·43	44·05	48·67	50·80	54·90	58·10	[illegible]	61·53	*S*	47·48	[illegible]
16	38·50	40·10	44·20	*S*	51·40	54·90	*S*	[illegible]	61·45	54·70	47·11	44·00
17	38·78	40·02	44·50	49·00	51·90	55·38	[illegible]	[illegible]	*S*	[illegible]	47·20	*S*
18	39·55	39·95	44·40	49·40	52·10	*S*	58·90	61·12	61·80	54·12	47·10	44·12
19	40·10	*S*	*S*	49·48	52·44	55·70	59·20	60·90	61·60	[illegible]	*S*	43·80
20	40·30	39·40	43·84	49·80	52·40	56·10	[illegible]	*S*	61·60	53·30	[illegible]	[illegible]
21	40·48	39·40	43·40	50·48	*S*	56·10	60·17	61·20	61·30	53·00	46·32	42·90
22	*S*	39·95	43·18	50·90	52·98	56·10	60·60	61·40	[illegible]	*S*	46·10	42·72
23	40·88	40·00	42·97	*S*	53·17	[illegible]	*S*	61·40	60·00	52·80	45·70	43·00
24	40·90	[illegible]	[illegible]	[illegible]	53·20	[illegible]	61·85	[illegible]	*S*	52·50	[illegible]	*S*

IV.—Reading of a Thermometer whose bulb is sunk to the depth of 3 French feet—*continued*.

Day of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
25	42·88	40·47	42·97	49·70	53·20	*S*	62·72	61·28	58·34	...	44·80	Christ. Day.
26	40·88	*S*	*S*	...	53·30	58·40	63·20	61·32	58·20	51·63	*S*	46·60
27	40·88	40·70	42·80	49·00	53·37	58·90	63·58	*S*	58·82	51·10	44·09	46·50
28	40·87	40·67	43·10	48·93	*S*	58·88	63·70	61·72	58·58	50·80	43·80	43·10
29	*S*		43·40	48·65	53·08	58·78	63·55	62·80	58·35	*S*	43·70	42·48
30	41·68		43·08	*S*	52·97	58·60	*S*	62·80	58·12	50·49	43·90	42·90
31	42·25		44·03		53·00		63·40	63·08		50·65		*S*

The letter *S* denotes that the day was Sunday.

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon, in the months from April to September, was found to be 0°·08 higher than the mean of the same months from all the observations, and in the remaining months the excess was 0°·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the case which covers the tops of the deep-sunk Thermometers, at Noon on every Day generally, except Sundays.

Day of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	47·8	40·8	49·8	51·0	59·8	58·0	66·0	63·2	*S*	52·0	42·0
2	33·5	43·5	41·8	*S*	51·0	56·0	*S*	65·0	64·8	56·0	53·0	42·5
3	29·0	37·5	39·8	51·0	54·0	55·5	63·0	62·2	*S*	58·5	50·0	*S*
4	35·0	38·8	40·0	48·8	53·0	*S*	63·0	58·2	65·5	55·0	47·0	46·0
5	35·5	*S*	*S*	51·0	53·0	56·0	61·5	58·5	66·0	61·0	*S*	47·0
6	34·5	48·0	38·0	51·5	51·0	53·8	62·5	*S*	63·5	58·0	47·5	45·0
7	37·4	48·8	38·5	51·5	*S*	55·0	60·7	61·0	66·0	54·8	45·0	42·0
8	*S*	43·3	48·0	54·8	53·0	56·0	59·8	63·5	63·2	*S*	46·0	42·0
9	39·0	43·5	51·8	*S*	49·5	56·5	*S*	64·8	63·0	57·0	45·0	44·0
10	38·0	39·6	49·8	50·5	50·5	58·0	63·0	64·2	*S*	58·0	...	*S*
11	37·0	39·0	49·8	62·5	52·0	*S*	60·0	64·5	60·2	57·5	46·5	39·0
12	37·0	*S*	*S*	51·6	53·0	59·0	58·0	65·5	63·0	53·0	*S*	41·5
13	...	38·0	50·0	53·8	53·0	58·5	59·0	*S*	65·0	48·0	42·4	43·0
14	39·7	36·0	50·0	Good Friday.	*S*	59·5	61·0	68·0	64·8	...	43·5	48·5
15	*S*	40·3	48·8	53·0	59·0	59·0	61·5	64·8	63·0	*S*	45·0	49·0
16	41·0	38·0	49·8	*S*	57·0	59·0	*S*	61·4	66·5	51·0	48·0	47·0
17	44·5	42·5	46·0	53·8	53·0	61·0	63·8	62·5	*S*	50·0	45·0	*S*
18	46·5	38·0	45·8	53·0	55·0	*S*	65·8	60·5	62·5	50·0	44·0	42·5
19	40·8	*S*	*S*	58·0	53·0	60·0	65·5	70·8	63·0	47·0	*S*	38·0
20	43·0	39·8	40·5	60·0	58·0	58·0	65·5	*S*	64·8	52·0	43·0	41·5
21	45·0	41·0	43·0	61·0	*S*	60·7	66·5	66·0	58·0	50·0	41·0	38·0
22	*S*	41·8	43·0	54·0	57·0	63·5	68·8	63·8	56·0	*S*	42·0	48·0
23	43·5	41·8	44·5	*S*	55·0	68·0	*S*	63·0	58·0	50·0	39·0	43·0
24	43·6	41·5	45·0	48·0	57·0	65·4	73·0	65·5	*S*	49·0	38·5	*S*
25	40·7	44·0	43·4	48·0	57·5	*S*	75·0	63·0	57·0	...	39·0	Christ. Day
26	45·0	*S*	*S*	...	56·5	66·6	70·7	61·7	56·5	47·0	*S*	43·0
27	43·5	43·0	44·8	51·0	55·0	63·0	67·5	*S*	58·5	45·0	35·0	40·8
28	46·0	44·0	47·0	48·2	*S*	62·8	67·8	72·5	58·0	52·0	40·0	38·0
29	*S*		47·8	48·0	53·0	63·0	66·5	69·5	55·8	*S*	45·0	39·0
30	48·8		48·2	*S*	54·8	60·0	*S*	69·0	55·0	54·0	42·0	43·0
31	48·6		48·2		57·8		68·0	69·2		55·0		*S*

The letter *S* denotes that the day was Sunday.

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

(VI.)—Reading of a Thermometer within the case covering the dry-ground Thermometers, whose bulb is placed on a level with the scales of the dry-ground Thermometers, at Noon on every Day generally, except Sundays.

Day of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	49·8	50·0	62·5	54·0	68·5	59·0	57·8	71·5	*S*	55·0	44·2
2	33·0	43·0	50·8	*S*	54·5	56·0	*S*	58·0	73·0	63·5	53·0	42·0
3	27·5	33·5	48·5	57·0	58·0	58·0	66·5	59·4	*S*	63·0	51·5	*S*
4	32·0	41·7	47·0	56·0	60·5	*S*	67·5	54·8	76·8	58·5	46·8	48·0
5	34·0	*S*	*S*	60·5	58·0	61·0	60·0	56·0	73·5	69·5	*S*	50·0
6	32·0	54·5	40·5	61·0	54·4	57·0	65·2	*S*	72·7	56·5	40·5	42·5
7	37·8	53·0	38·0	63·0	*S*	56·8	63·0	63·8	73·5	56·0	46·0	40·5
8	*S*	44·8	53·5	66·0	57·8	59·8	63·0	65·0	72·5	*S*	46·0	47·2
9	38·5	44·0	58·5	*S*	54·5	54·0	*S*	71·6	69·0	61·5	42·5	42·0
10	39·2	42·2	53·0	53·0	56·8	63·0	65·5	65·8	*S*	63·8	...	*S*
11	36·5	39·5	50·5	65·0	56·0	*S*	65·0	72·5	64·0	58·0	47·0	37·5
12	36·0	*S*	*S*	59·0	60·8	61·0	56·5	68·5	77·2	50·5	*S*	41·0
13	...	35·5	61·5	59·5	60·0	62·0	62·0	*S*	69·0	53·0	48·5	44·0
14	43·0	39·5	51·8	Good Friday	*S*	66·5	62·5	74·5	67·0	...	40·5	52·0
15	*S*	39·5	54·5	64·8	66·5	63·0	65·7	69·5	68·8	*S*	47·6	53·0
16	43·5	38·5	51·5	*S*	59·0	64·0	*S*	65·0	71·0	53·0	49·0	44·0
17	47·0	46·7	51·0	58·5	64·4	66·5	69·8	63·0	*S*	53·5	44·0	*S*
18	47·5	39·5	51·5	63·5	55·8	*S*	59·0	64·0	66·0	50·0	41·0	38·0
19	37·8	*S*	*S*	71·0	63·0	64·5	71·0	74·8	63·5	47·5	*S*	34·0
20	48·2	45·0	50·0	58·0	67·5	63·2	71·0	*S*	70·0	53·0	41·5	42·7
21	48·8	49·0	44·8	69·5	*S*	66·3	74·0	70·8	61·0	53·0	39·2	38·5
22	*S*	45·5	40·0	50·0	58·5	60·0	81·0	68·0	60·4	*S*	39·5	51·5
23	46·0	46·5	49·0	*S*	58·0	72·8	*S*	68·5	59·8	55·0	39·5	43·5
24	45·0	46·4	46·8	49·5	54·0	73·0	82·0	72·5	*S*	52·5	37·3	*S*
25	43·5	48·0	44·8	50·0	60·0	*S*	88·5	69·2	61·5	...	38·0	Christ. Day
26	48·5	*S*	*S*	...	62·0	67·0	74·5	68·8	65·0	50·5	*S*	43·8
27	45·8	50·8	47·0	54·8	54·2	64·5	68·5	*S*	67·0	51·5	36·0	39·0
28	47·5	49·2	50·5	49·5	*S*	64·8	71·0	79·8	68·2	50·5	41·0	36·8
29	*S*		57·0	51·5	52·0	65·5	73·0	78·5	70·0	*S*	46·5	37·5
30	51·7		51·5	*S*	66·6	65·0	*S*	81·2	60·7	62·0	43·0	44·5
31	51·3		56·0		63·0		72·0	74·0		66·0		*S*

The letter *S* denotes that the day was Sunday.

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d h	
1853.	Dec.	31. 12.	The direction of the wind was W.S.W.
1854.	Jan.	31. 12.	,, ,, S.S.W., which implies apparent retrograde motion of 45°.
	Jan.	4. 22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Jan.	11. 22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	12. 22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	14. 22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	16. 22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	18. 22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	19. 22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Jan.	21. 22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	24. 22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of January was 1035°.

		d h	
1854.	Jan.	31. 12.	The direction of the wind was S.S.W.
	Feb.	28. 12.	,, ,, S.E., which implies apparent retrograde motion of $67\frac{1}{2}$°.
	Feb.	11. 22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	13. 22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	21. 22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of February was $292\frac{1}{2}$°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

		d.	h.	
1854.	Feb.	28.	12.	The direction of the wind was S.E.
	March	31.	12.	,, ,, S.S.W., which implies apparent direct motion of $67\frac{1}{2}°$.
	March	0.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	March	2.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	19.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of March was $2227\frac{1}{2}°$.

		d.	h.	
1854.	March	31.	12.	The direction of the wind was S.S.W.
	April	30.	12.	,, ,, S.W., which implies apparent direct motion of $22\frac{1}{2}°$.
	April	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	4.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	7.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	10.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	20.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	26.	22.	The trace was shifted to the next set of lines downwards which implies apparent direct motion of 360°.
	April	27.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of April was $382\frac{1}{2}°$.

		d.	h.	
1854.	April	30.	12.	The direction of the wind was S.W.
	May	31.	12.	,, ,, E.N.E., which implies apparent retrograde motion of $157\frac{1}{2}°$.
	May	0.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	May	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	18.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	May	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	20.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of May was $1597\frac{1}{2}°$.

		d.	h.	
1854.	May	31.	12.	The direction of the wind was E.N.E.
	June	30.	12.	,, ,, S.W., which implies apparent direct motion of $157\frac{1}{2}°$.
	June	0.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	4.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	June	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	28.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of June was $202\frac{1}{2}°$.

CHANGES IN THE DIRECTION OF THE WIND—*concluded.*

		d	h	
1854.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, S., which implies apparent retrograde motion of 45°.
	July	0.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	1.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	8.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	July	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	10.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	20.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	23.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	July	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	29.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.

Therefore the whole excess of direct motion in the month of July was 2475°.

		d	h	
1854.	July	31.	12.	The direction of the wind was S.
	August	31.	12.	,, ,, E., which implies apparent direct motion of 270°.
	August	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of August was 1710°.

		d	h	
1854.	August	31.	12.	The direction of the wind was E.
	Sept.	30.	12.	,, ,, N., which implies apparent retrograde motion of 90°.
	Sept.	1.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	3.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	7.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	9.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	10.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of September was 2970°.

		d	h	
1854.	Sept.	30.	12.	The direction of the wind was N.
	Oct.	31.	12.	,, ,, S.W., which implies apparent retrograde motion of 225°.
	Oct.	6.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	8.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Oct.	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	22.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Oct.	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of October was 585°.

1854.	Oct.	31.	12.	The direction of the wind was S.W.
	Nov.	30.	12.	,, ,, W., which implies apparent direct motion of 45°.
	Nov.	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	16.	23.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of November was 315°.

		d	h	
1854.	Nov.	30.	12.	The direction of the wind was W.
	Dec.	31.	12.	,, ,, W., which implies no change.

Therefore the whole excess of direct motion to the end of the year was 2452½°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1854.

1854. MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January	0·9	1·7	1·3	1·4
February	0·3	1·1	0·9	1·2
March	0·5	0·4	0·4	0·3
April	0·3	0·5	0·6	0·6
May	2·5	3·2	3·0	3·5
June	0·3	0·9	0·7	0·9
July	0·9	1·5	1·3	1·8
August	1·9	2·9	2·7	2·6
September	0·3	0·7	...	1·0
October	1·4	1·7	...	2·4
November	0·8	1·3	...	1·9
December	0·6	1·0	1·2	1·4
Sums	10·6	16·9	...	19·0

Crosley's rain-gauge was out of order in the months of September, October, and November.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS.

1855.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1855.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1855, of Mr. Glaisher, the Superintendant, and Mr. Downs ; with three supernumerary assistants, to aid in the observations and reductions.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii ; and to corresponding parts of the preceding volumes.

During the year 1855, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two or three observations only have been taken ; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 26, February 2, 24, March 2, 3, April 14, 18, May 25, 29, June 15, July 5, 14, August 24, 25, September 11, October 3, 27, November 1, December 7 and 25.

Observations were made of the Collimation of the Declination Magnetometer; of the Torsion-force of its Suspension skein ; and of the Collimation of the Theodolite-Telescope, on 1854, December 28 and 29.

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER, were made on 1855, January 1 and 2. The angle determined was 43°. 6′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on the same days, and the general conclusion was, that the scale-readings were nearly identical and had nearly the same value when the reading of the torsion-circle was 143°. 5o′ (marked end West); and 23o°. 34′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 143°. 5o′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020524.

The correction for temperature is $0{\cdot}0000809 \times (t-32) + 0{\cdot}000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observations.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made three or four times a week. The adopted time of vibration till March 31, was $17^s{\cdot}00$; from April 1 to October 10, was $18^s{\cdot}13$; and from October 11 to the end of the year, was $17^s{\cdot}00$. Observations for the time of vibration in a horizontal plane were made in 1853, on January 3 and 4, and the time was found to be $25^s{\cdot}0033$ from 10000 vibrations.

The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·001341 till March 31; 0·001179 from April 1 to October 10 ; and 0·001341 from October 11 to the end of the year : and these numbers have been used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 + (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus; in the determination of zeros, both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the six preceding volumes has still occasionally been felt. Apparently, without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot notes, will very nearly produce the original curves.

At the times when the Vertical Force Trace is dislocated, two ordinates have been taken for the same abscissæ; these are connected by a brace, and the difference of the numbers indicates the amount of the disturbance.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 1				Jan. 1		Jan. 1		
h m	° ′ ″	h m		h m		h m	°	°
0. 36	21. 52. 40			0. 40	·01130	1. 40		51 ·0
1. 0	53. 0			2. 15	·00986	3. 40		52 ·0
1. 55	51. 30			3. 25	·00860	9. 40		54 ·5
2. 0	52. 55			3. 35	·00890	21. 40		52 ·0
2. 35	52. 30			4. 47	·00870			
3. 20	50. 0			5. 18	·00932			
3. 50	51. 10			6. 0	·00920			
5. 35	51. 0			8. 15	·00860			
6. 5	53. 0			13. 59	·00870			
7. 6	52. 0			20. 27	·00890			
	***			23. 40	·00930			
10. 30	50. 5							
	***							
15. 0	51. 0							
15. 16	52. 0							
18. 27	52. 50							
18. 40	54. 0							
19. 7	52. 0							
	***							
20. 6	53. 5							
20. 30	50. 10							
21. 5	53. 0							
	***							
22. 8	52. 45							
23. 0	53. 50							
23. 5	52. 25							
	***							
23. 57	53. 50							
Jan. 2		Jan. 2		Jan. 2		Jan. 2		
0. 0	21. 56. 30		(†)	0. 0	·00940	1. 40	53 ·0	54 ·0
0. 33	55. 35	1. 33	·1001	0. 57	·00920	3. 40	54 ·5	54 ·5
	***	2. 0	·1007	1. 59	·00870	9. 40	54 ·5	55 ·0
1. 22	57. 0		(†)	4. 25	·00910	21. 40	53 ·0	53 ·5
2. 7	54. 20	3. 45	·1000	4. 34	·01000			
4. 20	53. 50		***	4. 47	·01045			
5. 25	52. 0	4. 30	·0989	6. 25	·00980			
	***	5. 2	·0997	11. 40	·00947			
9. 1	49. 0	6. 0	·0998	13. 18	·00950			
9. 15	52. 0	6. 28	·0996	18. 30	·00980			
9. 30	49. 0		***	23. 59	·01060			
10. 30	49. 0	7. 30	·1007					
10. 50	45. 55	9. 27	·1005					
11. 37	49. 0	10. 35	·1007					
	***	10. 55	·1016					
14. 15	51. 35	11. 25	·1008					
14. 35	50. 0	13. 0	·1010					
	***	14. 30	·1016					
15. 34	52. 0		***					
	***	17. 0	·1017					
17. 20	51. 0	20. 30	·1017					
18. 2	51. 55	20. 40	·1013					
19. 0	49. 0		***					
	***	22. 30	·1012					
20. 30	52. 0		***					
20. 46	50. 25	23. 0	·1011					
20. 58	52. 30	23. 59	·1011					
21. 8	51. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 2								
h m	° ′ ″	h m		h m		h m	°	°
21. 25	21. 52. 0							
21. 44	50. 5							
23. 59	53. 40							
Jan. 3		Jan. 3		Jan. 3		Jan. 3		
0. 0	21. 53. 45	0. 0	·1012	0. 20	·01050	1. 40	54 ·0	55 ·0
0. 52	53. 0	0. 17	·1018	4. 8	·00878	3. 40	55 ·0	56 ·0
1. 0	54. 30		***	4. 16	·01100	9. 40	54 ·0	55 ·0
1. 30	52. 35	3. 0	·1016	5. 8	·01080	21. 40	52 ·5	53 ·0
2. 15	53. 20	3. 30	·1010	5. 46	·01130			
	***		***	11. 6	·01240			
3. 35	52. 30	3. 46	·1014	11. 31	·01228			
	***	4. 16	·1009	12. 39	·01280			
4. 45	54. 0	4. 47	·1009	21. 56	·01749			
5. 15	48. 55	5. 8	·0994	22. 24	·01747			
6. 0	52. 30	5. 26	·0988	23. 59	·01726			
	***	6. 14	·1004					
7. 22	52. 0	7. 4	·1007					
7. 59	47. 5		***					
		7. 58	·0995					
9. 5	49. 0	8. 15	·1000					
		8. 57	·1005					
10. 55	46. 30	9. 15	·1010					
11. 14	49. 0	10. 8	·1006					
11. 49	45. 0	10. 22	·1010					
12. 13	48. 0	10. 53	·1007					
12. 23	46. 5	11. 10	·1025					
12. 58	45. 30	11. 46	·1016					
13. 14	48. 0	12. 15	·1022					
17. 40	50. 45	12. 30	·1018					
	***	13. 14	·1018					
21. 6	49. 0	13. 46	·1024					
21. 30	51. 30	14. 16	·1014					
21. 53	50. 0	18. 10	·1018					
23. 15	50. 55		***					
23. 59	52. 5	19. 45	·1024					
		23. 15	·1011					
		23. 59	·1010					
Jan. 4				Jan. 4		Jan. 4		
0. 0	21. 52. 10	0. 0	·1011	0. 19	·01723	1. 40	53 ·0	53 ·5
2. 23	53. 15		***	2. 14	·01650	3. 40	55 ·0	56 ·0
2. 31	54. 55	1. 30	·1013	7. 2	·01340	9. 40	52 ·5	53 ·0
2. 50	52. 50	4. 0	·1012	9. 46	·01350	21. 40	49 ·0	50 ·0
	***		***	15. 51	·01500			
8. 24	49. 30	5. 20	·1009	21. 14	·01720			
	***	11. 15	·1016		·01650			
12. 30	48. 30	12. 3	·1015	22. 50	·01680			
	***	12. 30	·1020	23. 59	·01660			
19. 23	50. 0		***					
21. 16	52. 0	13. 30	·1018					
	***	16. 30	·1022					
22. 5	50. 0	18. 0	·1022					
	***		***					
23. 59	53. 35	19. 30	·1026					
		20. 0	·1023					
			***					
		21. 53	·1023					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

January 1. The Horizontal Force magnet was under adjustment.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Jan. 4 h m		h m		h m	°	°
		22. 34	·1015					
		23. 0	·1014					
		23. 55	·1012					
Jan. 5		Jan. 5		Jan. 5		Jan. 5		
0. 41	21. 52. 0	0. 5	·1015	0. 0	·01657	1. 40	54·0	55·0
1. 22	54. 30		***	2. 25	·01480	3. 40	54·0	54·5
2. 45	52. 35	1. 45	·1012	4. 59	·01260	9. 40	53·0	53·5
3. 23	54. 0		***		·01475	21. 40	52·5	52·8
3. 40	52. 30	3. 35	·1000	6. 15	·01468			
4. 7	55. 0	4. 0	·1006	7. 35	·01520			
4. 36	52. 30	4. 15	·1000	11. 30	·01510			
5. 6	55. 0		***	19. 25	·01610			
7. 9	51. 0	4. 35	·1004	23. 30	·01595			
7. 45	45. 0	4. 52	·1001					
7. 58	45. 45	5. 58	·1006					
8. 9	44. 30	6. 15	·1004					
8. 45	49. 15	6. 51	·0997					
10. 21	46. 30	7. 2	·0998					
11. 3	46. 0	7. 15	·0994					
11. 34	47. 25		***					
11. 51	46. 0	7. 36	·0993					
12. 44	46. 0	8. 0	·0999					
13. 25	48. 30	8. 20	·1008					
21. 15	51. 30	8. 35	·1005					
21. 45	50. 25	10. 5	·1004					
23. 1	51. 5	10. 20	·1009					
23. 55	55. 0	10. 55	·1006					
		11. 15	·1011					
		11. 20	·1018					
		11. 30	·1018					
		11. 45	·1015					
		12. 15	·1021					
			***					
		14. 40	·1014					
		16. 50	·1018					
		17. 52	·1016					
		19. 50	·1025					
		21. 0	·1022					
			***					
		22. 30	·1013					
		23. 5	·1003					
		23. 30	·1003					
		23. 59	·1012					
Jan. 6		Jan. 6		Jan. 6		Jan. 6		
0. 0	21. 55. 5	0. 0	·1008	0. 0	·01560	1. 40	55·0	55·0
	***	1. 5	·1012	3. 0	·01317	3. 40	56·5	56·5
1. 30	52. 10	1. 32	·1009	4. 35	·01169	9. 40	57·0	57·0
1. 45	53. 0	2. 20	·1007	4. 44	·01198	23. 34	50·8	51·0
3. 0	51. 30	2. 50	·1012	5. 31	·01109			
3. 17	53. 20	3. 15	·1005	5. 45	·01190			
4. 9	53. 0	3. 40	·1010	7. 33	·01169			
4. 28	51. 5	4. 28	·0999	9. 16	·01180			
	***	4. 55	·1010	10. 20	·01150			
8. 10	50. 0		***	15. 15	·01255			
8. 50	34. 30	8. 12	·1007	20. 0	·01444			
9. 21	47. 20	8. 27	·0998	23. 45	·01571			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 6 h m	° ′ ″	Jan. 6 h m		h m		h m	°	°
9. 45	21. 42. 35	8. 35	·0998					
	***	8. 53	·1012					
10. 35	46. 10	9. 0	·1008					
11. 19	43. 30	9. 14	·1029					
11. 46	48. 35	9. 32	·1012					
12. 30	47. 0	9. 45	·1020					
13. 47	48. 0	10. 45	·1005					
14. 7	52. 0	13. 12	·1012					
	***	13. 30	·1009					
15. 5	53. 35	14. 35	·1023					
15. 55	48. 45	15. 15	·1014					
16. 25	48. 20	15. 47	·1020					
	***	16. 8	·1016					
18. 14	52. 25	16. 17	·1020					
22. 0	49. 25	17. 40	·1016					
	***	18. 35	·1024					
23. 59	52. 15	19. 0	·1019					
		19. 46	·1023					
		22. 0	·1014					
		23. 55	·1004					
Jan. 7		Jan. 7		Jan. 7		Jan. 7		
0. 0	21. 52. 20		(†)	0. 45	·01600	11. 40	53·0	53·0
0. 45	54. 0	2. 0	·1018	3. 0	·01648	21. 40	52·0	52·0
4. 45	49. 15		***	7. 15	·01548			
	***	3. 0	·1026	9. 27	·01530			
7. 0	51. 0	3. 30	·1023	9. 37	·01699			
10. 35	49. 0			13. 30	·01710			
	***	4. 40	·1028	15. 15	·01750			
14. 50	49. 10		***		·01720			
17. 46	53. 30	5. 55	·1012	19. 15	·01725			
18. 0	52. 5	6. 44	·1028	21. 35	·01730			
	***	7. 32	·1024					
19. 14	52. 0	8. 15	·1020					
19. 32	54. 0	9. 45	·1015					
21. 0	55. 30	11. 39	·1022					
	***	14. 30	·1020					
22. 23	53. 0	15. 43	·1013					
22. 35	54. 0	16. 35	·1016					
	(†)	17. 54	·1011					
		18. 5	·1014					
		18. 43	·1008					
		19. 30	·1016					
			***					
		20. 10	·1008					
		20. 35	·1015					
			***					
		22. 25	·1014					
		22. 44	·1011					
			(†)					
Jan. 8		Jan. 8		Jan. 8		Jan. 8		
0. 30	21. 52. 0	0. 25	·1028	0. 35	·01668	1. 40	53·0	53·0
1. 30	53. 30		***	1. 32	·01660	3. 40	54·0	55·0
4. 10	50. 25	2. 23	·1014		·01797	9. 40	54·2	54·5
5. 7	51. 35		***	3. 45	·01690	21. 40	50·0	51·0
6. 31	49. 30	4. 30	·1011	5. 35	·01760			
6. 49	50. 55	5. 45	·1014	9. 50	·01780			
	***	7. 15	·1015	10. 53	·01820			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
Jan. 8		Jan. 8		Jan. 8				
h m	° ′	h m		h m		°	°	°
7. 40	21. 49. 0	8. 0	·1016	11. 0	·01783			
13. 0	48. 30	11. 25	·1018	16. 20	·01775			
14. 0	51. 0	12. 0	·1017	23. 55	·01750			
15. 55	49. 0	14. 35	·1023					
22. 0	49. 0		***					
23. 10	50. 10	16. 25	·1022					
23. 59	52. 30	17. 15	·1026					
		18. 15	·1018					
			***					
		20. 15	·1028					
		21. 48	·1022					
		23. 15	·1016					
		23. 58	·1008					
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 0	21. 52. 30	0. 30	·1012	0. 30	·01782	1. 40	53 ·0	53 ·0
	***	1. 0	·1015	1. 14	·01680	3. 40	54 ·0	55 ·0
1. 12	55. 30	1. 40	·1013		·01620	9. 40	55 ·5	56 ·0
1. 35	54. 0	2. 55	·1024	4. 34	·01450	21. 40	49 ·0	50 ·5
	***		***	5. 15	·01420			
4. 0	51. 20	4. 50	·1017	7. 10	·01400			
7. 10	52. 0	5. 0	·1020	10. 37	·01465			
7. 25	50. 30	5. 12	·1015	13. 55	·01590			
8. 45	48. 35	6. 12	·1010		·01780			
9. 15	49. 30	7. 30	·1015	16. 44	·01740			
10. 15	46. 0	10. 15	·1018	18. 50	·01742			
	***	11. 8	·1025	23. 51	·01708			
11. 0	48. 30	11. 40	·1024					
11. 21	46. 25	13. 0	·1028					
11. 45	48. 5	15. 55	·1027					
12. 20	46. 5	19. 0	·1033					
	***	19. 20	·1034					
13. 15	50. 0	19. 35	·1037					
18. 0	49. 0	21. 0	·1034					
22. 6	50. 30	22. 45	·1020					
23. 59	53. 55	23. 12	·1026					
		23. 30	·1024					
		23. 59	·1024					
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
0. 0	21. 53. 55	0. 17	·1023	0. 49	·01720	1. 40	50 ·0	50 ·8
1. 0	53. 25	3. 50	·1033	2. 32	·01730	3. 40	50 ·8	51 ·3
1. 30	54. 30	4. 25	·1031	3. 26	·01727	9. 40	49 ·0	50 ·0
5. 10	52. 20	4. 50	·1026	4. 59	·01626	21. 40	41 ·0	43 ·0
9. 33	47. 20		***	7. 30:	·01520			
9. 55	44. 0	7. 0	·1034	9. 18	·01581			
10. 16	43. 10	8. 10	·1031		·01720			
10. 32	42. 0	8. 55	·1033	11. 0	·01440			
10. 44	43. 0	9. 55	·1028	15. 34	·01600			
11. 17	40. 35	10. 12	·1021	20. 30	·01568			
11. 48	41. 0	10. 20	·1022	23. 59	·01485			
12. 25	43. 55	10. 43	·1049					
13. 8	43. 0	11. 15	·1028					
	***	11. 30	·1027					
13. 55	47. 0	11. 40	·1019					
14. 55	48. 35	12. 0	·1024					
15. 15	47. 25	12. 30	·1034					
15. 30	49. 30	12. 45	·1031					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
Jan. 10		Jan. 10						
h m	° ′	h m				h m	°	°
20. 0	21. 49. 0	13. 47	·1029					
20. 10	51. 0	14. 30	·1031					
	***	15. 30	·1031					
22. 33	48. 30	17. 25	·1048					
22. 52	50. 5		***					
	***	19. 25	·1049					
23. 54	50. 30	21. 15	·1050					
		22. 30	·1041					
		23. 59	·1036					
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 0	21. 50. 30	0. 0	·1036	1. 38	·01390	1. 40	44 ·5	45 ·0
	***	1. 30	·1034	2. 40	·01322	3. 40	46 ·3	47 ·3
0. 45	53. 35	2. 24	·1038	5. 28	·01045	9. 40	46 ·5	47 ·0
1. 22	52. 20	4. 14	·1038	7. 36:	·00824	21. 40	44 ·0	45 ·0
1. 31	54. 0	4. 35	·1044	10. 2	·00740			
1. 46	52. 10	4. 55	·1038	17. 47	·00760			
4. 19	50. 25		***	22. 25	·00960			
4. 55	52. 20	6. 2	·1038	23. 57	·00976			
5. 26	50. 15	6. 20	·1032					
5. 42	52. 0	6. 43	·1036					
6. 15	46. 25	6. 50	·1034					
6. 33	50. 35	7. 15	·1043					
6. 53	38. 30	7. 40	·1036					
7. 30	48. 40	7. 45	·1030					
	***	8. 0	·1034					
8. 23	49. 55	8. 12	·1043					
11. 30	46. 10		***					
12. 7:	35. 0	8. 43	·1035					
	***	9. 17	·1044					
13. 10	46. 0	9. 58	·1042					
13. 20:	44. 35		***					
13. 50	47. 55	10. 55	·1042					
14. 19	48. 55	11. 47	·1036					
14. 30	46. 20	12. 30	·1042					
15. 0	48. 50	13. 8	·1034					
15. 30	45. 25	14. 0	·1036					
16. 16	49. 30	14. 15	·1045					
16. 40:	44. 30	14. 30	·1038					
17. 14	45. 40	15. 20	·1046					
17. 45	43. 30		***					
	***	15. 52	·1064					
20. 30	51. 0	16. 30	·1051					
	***	17. 0	·1053					
22. 23	49. 0	18. 15	·1053					
	***	18. 50	·1051					
23. 15	52. 0	19. 35	·1047					
	***	19. 45	·1052					
23. 59	50. 45	19. 58	·1048					
		20. 27	·1052					
		21. 48	·1040					
			***					
		23. 59	·1031					
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	21. 51. 0	0. 0	·1034	0. 0	·00950	1. 40	47 ·0	48 ·0
0. 30	56. 5		***	2. 13	·00830	3. 40	49. 0	49 ·5
1. 14	52. 40	0. 53	·1030	3. 48	·00680	9. 40	49 ·0	50 ·0
1. 30	53. 0	2. 15	·1037	3. 51	·00703	21. 40	45 ·0	46 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
h m	° ′ ″	h m		h m		h m	°	°
2. 4	21. 54. 25	3. 2	·1044	6. 2	·00750			
	***	4. 0	·1037	10. 17	·00702			
2. 35	52. 30	4. 45	·1034	13. 10:	·00670			
2. 46	54. 0	5. 10	·1026	19. 10	·00906			
3. 16	53. 45		***	23. 59	·01128			
3. 41	50. 20	6. 15	·1037					
	***	6. 45	·1032					
4. 35	51. 35	6. 55	·1034					
5. 23	50. 0		***					
6. 55	52. 30	7. 40	·1029					
7. 20	52. 0	7. 46	·1044					
	***		***					
7. 46	40. 35	8. 28	·1028					
8. 23	48. 30	9. 0	·1056					
8. 45	40. 10	9. 24	·1025					
9. 11	46. 0	9. 40	·1032					
9. 30	42. 0	10. 12	·1022					
	***	10. 28	·1027					
10. 30	48. 20	10. 32	·1022					
	***	11. 14	·1028					
11. 46	48. 0	11. 30	·1032					
12. 5	51. 20	12. 0	·1044					
12. 53	47. 55	12. 43	·1038					
	***	14. 58	·1036					
15. 25	49. 0	17. 15	·1044					
16. 0	48. 0	18. 0	·1043					
17. 0	49. 30	19. 15	·1048					
	***	19. 25	·1044					
19. 45	49. 0	20. 0	·1049					
21. 15	47. 30	20. 40	·1049					
21. 40	49. 30		***					
	***	23. 30	·1036					
22. 50	49. 30							
	***							
23. 31	53. 0							
23. 45:	51. 20							
23. 59	51. 0							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	21. 51. 0	0. 10	·1029	0. 5	·01130	1. 40	48 ·0	49 ·0
	***	1. 30	·1030	1. 56:	·01060	3. 40	50 ·5	50 ·5
1. 1	54. 35	2. 8	·1036	4. 59	·00725	9. 40	50 ·3	50 ·5
1. 35	53. 35	3. 0	·1036		·00801	23. 3	43 ·0	44 ·0
2. 15	54. 55		***	8. 5	·00729			
	***	4. 0	·1032	9. 58	·00720			
4. 45	51. 0		***	12. 28	·00732			
5. 35	50. 30	7. 8	·1044	17. 40	·01058			
5. 59	52. 30	7. 45	·1034	23. 20	·01448			
6. 55	51. 0		***					
7. 14	52. 0	8. 0	·1033					
7. 30	50. 35	8. 15	·1035					
	***	8. 32	·1031					
8. 31	53. 0	9. 23	·1038					
9. 10	50. 0	11. 45	·1043					
10. 50	48. 0	12. 10	·1070					
11. 44	48. 30	12. 45	·1043					
11. 59	44. 0	12. 50	·1040					
12. 16	48. 0	13. 12	·1054					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 13		Jan. 13						
h m	° ′ ″	h m		h m		h m	°	°
12. 39	21. 44. 0	13. 30	·1051					
	***	14. 17	·1040					
13. 6	43. 25	14. 30	·1043					
13. 26	41. 30	15. 0	·1046					
14. 0	45. 0		***					
14. 25	44. 0	18. 0	·1053					
15. 23	50. 0	20. 0	·1056					
16. 0	47. 0	22. 0	·1058					
16. 35	50. 20	23. 28	·1050					
16. 56	50. 30							
17. 9	49. 0							
17. 45	51. 0							
18. 55	48. 15							
20. 5	49. 40							
21. 40	48. 15							
23. 59	51. 0							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 0	21. 51. 0	0. 0	·1046	0. 0	·01504	9. 3	44 ·0	46 ·0
1. 45	55. 55	1. 0	·1048	1. 28	·01596	21. 40	39 ·0	40 ·0
	***	1. 50	·1055	3. 31	·01650			
4. 0	52. 20	3. 30	·1051	7. 15	·01579			
4. 30	50. 0	3. 37	·1044	9. 25	·01560			
6. 51	48. 20	3. 58	·1046	12. 20	·01646			
7. 21	42. 35	4. 8	·1041		·01500			
8. 25	48. 35	4. 41	·1050	17. 46	·01497			
10. 45	47. 30	5. 0	·1050	22. 11	·01492			
	***	6. 0	·1051		·01308			
14. 30	51. 0	7. 0	·1048	23. 59	·01330			
15. 15	47. 55	7. 16	·1045					
19. 20	50. 25	7. 33	·1052					
20. 30	49. 0	7. 57	·1054					
20. 45	51. 0	8. 30	·1048					
21. 5	50. 0	9. 9	·1051					
21. 51	50. 25	9. 34	·1051					
22. 45	49. 5	11. 30	·1054					
23. 59	52. 0	13. 0	·1054					
		13. 14	·1052					
		14. 30	·1056					
		14. 46	·1060					
		16. 25	·1055					
		17. 55	·1059					
		18. 4	·1064					
		18. 14	·1059					
		19. 6	·1060					
			***					
		20. 4	·1062					
		20. 31	·1063					
		21. 16	·1056					
		21. 25	·1062					
		21. 54	·1060					
		23. 0:	·1050					
		23. 30	·1052					
		23. 59	·1053					
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 0	21. 52. 5	0. 0	·1053	0. 45	·01340	1. 40	43 ·0	44 ·0
	***	0. 30	·1052	2. 26	·01291	3. 40	44 ·5	45 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
h m	° ′ ″	h m		h m		h m	°	°
2. 15	21. 54. c	1. 21	·1054	4. 0	·01160	9. 40	45 ·0	45 ·0
3. 5	51. 0	2. 24:	·1048	7. 15:	·00762	21. 40	41 ·0	42 ·0
4. 6	53. c	3. 15	·1052	9. 3	·00690			
4. 30	51. 15	4. 0	·1050	18. 40	·00786			
6. c	52. c		***	20. 52	·01063			
8. 50	47. 30	5. 0	·1044	23. 25	·01087			
10. 35	46. 0	6. 45	·1042	23. 59	·01070			
10. 50	43. c	9. 0	·1047					
11. 21	44. 35	10. 31	·1048					
11. 52	41. 30	11. 14	·1071					
	***	11. 30	·1068					
12. 26	47. 35	11. 55	·1053					
13. 17	43. 25	12. 8	·1055					
14. 1	48. 0	12. 30:	·1053					
14. 57	49. 0	12. 55:	·1055					
15. 8	48. 0	13. 22	·1048					
	***	14. 2	·1052					
19. 30	43. 40	14. 24	·1051					
	***	16. 0	·1054					
22. 35	48. 0	17. 0	·1050					
	***	19. 35	·1057					
23. 59	51. 0	22. 0	·1044					
		22. 30	·1045					
		23. 59	·1041					
Jan. 16		Jan. 16		Jan. 16		Jan. 16		
c. c	21. 51. 10	0. 30	·1043	c. 18	·01044	1. 40	44 ·0	45 ·0
1. 11	52. 30		***	1. 16	·01002	3. 40	46 ·0	47 ·0
1. 30:	54. 35	1. 50	·1047	2. 56	·00860	9. 40	44 ·0	45 ·0
3. 1	52. 0	2. 45	·1044	4. 29	·00661	21. 40	37 ·0	38 ·0
3. 13	53. 55	3. 12	·1045	4. 32	·00690			
	***	4. 0	·1046	5. 31	·00700			
3. 43	51. 20	5. 0	·1044	7. 32	·00643			
5. 25	51. 0	7. 55	·1043	8. 49	·00619			
	***	8. 12	·1046	11. 36	·00830			
8. 30	47. 0	9. 30	·1045	17. 50	·01412			
	***	10. 5	·1042	18. 30	·01450			
11. 0	48. 55		***	18. 35	·01406			
14. 17	51. 30	11. 26	·1050	22. 13	·01410			
17. 25	50. 0	12. 0	·1052	23. 57	·01462			
	***	16. 5	·1056					
20. 33	47. 15	18. 0	·1061					
21. 10:	49. 25	20. 20	·1066					
22. 20	49. 25	21. 48	·1064					
23. 59	51. 40	22. 28	·1055					
		22. 33	·1059					
		23. 59	·1057					
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 0	21. 51. 40	0. 15	·1054	0. 10	·01472	1. 40	41 ·0	42 ·0
	***	1. 32	·1066	2. 6	·01451	3. 40	43 ·0	43 ·5
2. 0	54. 30	3. 30	·1055	2. 52:	·01400	9. 40	41 ·0	42 ·0
2. 30:	53. c	5. 15	·1058	7. 13:	·01019	21. 40	33 ·5	35 ·0
4. 45	51. 15	6. 10	·1060	8. 58	·00980			
5. 44	52. 15	7. 47	·1059	14. 51	·01280			
6. c	51. 0	8. 17	·1054	17. 34	·01441			
8. 0	50. 50	9. 15	·1062	18. 0	·01421			
8. 19	48. 35	10. 0	·1060	23. 12	·01441			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 17		Jan. 17						
h m	° ′ ″	h m		h m		h m	°	°
8. 39	21. 41. 15	10. 30	·1063					
	***	11. 5	·1065					
10. 55	47. 40	12. 10	·1066					
	***	12. 55	·1064					
14. 15	48. 30	13. 32	·1072					
16. 30	51. 0	14. 30	·1066					
	(†)	17. 0	·1075					
21. 10	51. 0	18. 0	·1076					
23. 10	50. 0	21. 55	·1070					
23. 37	52. 0		***					
23. 50	51. 0	23. 25	·1065					
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 0	21. 51. 25	0. 30	·1060	0. 7	·01480	1. 40	39 ·0	40 ·0
3. 0	54. 0	2. 15	·1056	1. 45:	·01448	3. 40	42 ·5	42 ·5
	***		***	2. 47	·01299	9. 40	43 ·0	44 ·0
3. 44	51. 10	4. 30	·1050	5. 42	·00704	21. 40	37 ·8	38 ·8
6. 11	49. 25	8. 0	·1058	5. 45	·00740			
8. 0	48. 50	11. 0	·1062	9. 41	·00650			
8. 24	49. 30	12. 0	·1064	19. 30	·00868			
9. 2	49. 0	12. 50	·1063	20. 28	·01080			
9. 16	50. 15		***	23. 4	·01325			
10. 0	49. 0	16. 0	·1066	23. 59	·01352			
10. 19	50. 0	17. 0	·1068					
11. 45	48. 45		***					
12. 18:	44. 30	18. 5	·1070					
14. 42	49. 0	21. c	·1067					
15. 21	48. 25	21. 45	·1064					
16. 49	49. 30	22. 30	·1062					
20. c	48. 55	23. 0	·1058					
20. 24	49. 30	23. 59	·1056					
22. 15	48. c							
23. 25	53. 0							
23. 40	51. 5							
23. 59	51. 30							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
c. c	21. 51. 30	0. 0	·1056	0. 44	·01375	1. 40	39 ·0	39 ·0
0. 30	51. 0		***	1. 15:	·01345	3. 40	43 ·0	43 ·0
	***	0. 45	·1051	5. 16:	·01010	9. 40	40 ·0	41 ·0
2. 40	52. 30	1. 40	·1057	6. 52	·00979	21. 40	35 ·2	37 ·0
2. 51	53. 50		***	8. 58	·01001			
3. 11	51. 5	3. 45	·1058	9. 0	·01020			
3. 21	53. 20	5. 30	·1056	9. 55	·01070			
3. 31	51. 0	13. 0	·1065	13. 5	·01473			
3. 46	52. c	15. 0	·1070		·01422			
5. 5	51. 0	18. 30	·1077	18. 5	·01411			
12. 1	48. 25	20. 15	·1080		(†)			
13. 30	49. 30	21. 0	·1078	21. 27	·01410			
	(†)	23. 55	·1067	23. 59	·01422			
23. 10	50. 25							
23. 59	52. 35							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 0	21. 52. 35	0. 0	·1064	c. 45	·01370	1. 40	39 ·0	39 ·0
0. 15	52. 10	2. 8	·1066	2. 55	·01273	3. 40	40 ·0	40 ·0
0. 46	55. 0	4. 0	·1062	4. 0	·01142	9. 40	41 ·0	41 ·5
1. 15:	52. 30	5. 0	·1064		·01204	23. 33	36 ·0	37 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole Force for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 20	′ ″	Jan. 20		Jan. 20				
h m		h m		h m				
5. 0	21. 51. 30	7. 0	·1050	5. 17	·00930			
6. 20	50. 0	8. 30	·1065	7. 0	·00750			
7. 33	50. 55	10. 17	·1065	7. 58	·00711			
8. 40	49. 0	11. 30	·1066	11. 11	·00688			
11. 22	48. 30	14. 5	·1070	16. 20	·00751			
14. 15	49. 50	14. 30	·1068	20. 21	·00850			
15. 55	49. 55	15. 17	·1075	23. 59	·01063			
16. 49	47. 35	16. 0	·1072					
18. 50	47. 30	17. 0	·1074					
	***	17. 30	·1073					
22. 0	49. 0	18. 10	·1067					
23. 59	54. 0	19. 0	·1074					
		20. 0	·1078					
		21. 30	·1074					
		23. 59	·1068					
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
0. 0	21. 54. 0	0. 0	·1068	0. 10	·01098	9. 6	36·0	37·0
2. 10.	54. 0	2. 40	·1072	3. 15	·01226	21. 40	33·0	35·0
5. 31	50. 0	4. 23	·1076	8. 20	·01152			
9. 34	49. 0	7. 45	·1077	14. 46	·01420			
13. 33	48. 55	10. 35	·1072		·01371			
	***	14. 30	·1072	18. 0	·01400			
14. 52	50. 30	15. 14	·1084	21. 35	·01485			
15. 32	47. 30	16. 43	·1079	23. 14	·01480			
16. 23	48. 30	17. 0	·1072	23. 45	·01430			
17. 10	55. 30	17. 45	·1088					
17. 55	50. 30	18. 30	·1082					
19. 43	51. 35	19. 0	·1088					
	***	19. 30	·1083					
22. 15	55. 0	20. 5	·1074					
	***	20. 15	·1076					
22. 40	57. 30	22. 15	·1054					
23. 15	56. 15	22. 45	·1049					
23. 33	57. 25		***					
23. 59	54. 40	23. 45	·1054					
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	21. 54. 10	0. 10	·1056	1. 15	·01379	1. 40	37·0	37·0
	***	1. 0	·1050	2. 4	·01330	3. 40	39·0	40·0
0. 25	57. 0	2. 0	·1056	5. 0	·00922	9. 40	39·2	40·5
0. 35	55. 30	2. 30	·1049	7. 16	·00658	21. 40	36·5	37·0
1. 0	55. 30	3. 30	·1046	11. 32	·00625			
1. 14	55. 15	4. 15	·1049	15. 30	·00662			
2. 24	56. 30	4. 25	·1044	23. 8	·00930			
3. 35	54. 0	5. 0	·1043	23. 50	·00920			
4. 29	57. 25	6. 15	·1052					
4. 58	56. 0	7. 27	·1049					
5. 10	53. 30	9. 0	·1055					
7. 25	50. 0	11. 0	·1058					
9. 10	49. 15		***					
12. 35	49. 30	14. 0	·1054					
14. 30	51. 0		***					
17. 21	50. 20	17. 0	·1066					
	(†)	20. 0	·1070					
20. 45	51. 50	22. 0	·1066					
22. 14	48. 0	23. 0	·1059					
22. 51	50. 55	23. 30	·1057					
	***							

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Jan. 22	′ ″	Jan. 23		Jan. 23		Jan. 23		
h m		h m		h m		h m	°	°
23. 59	21. 49. 30							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 0	21. 49. 35	0. 0	·1060	0. 5		1. 40	42·0	43·0
	***	0. 50	·1054	2. 45	·00708	3. 40	42·5	43·0
1. 50	51. 35	1. 55	·1051		·00758	9. 48	43·0	43·0
2. 6	53. 30	2. 38	·1052	7. 50	·00695	21. 48	39·0	41·0
2. 21	52. 0		***	8. 5	·00765			
2. 45	52. 25	5. 15	·1053	8. 40	·00762			
3.	54. 0	6. 30	·1056	8. 48	·00850			
3. 20	52. 0	7. 15	·1050	11. 45	·00942			
4. 6	52. 10	8.	·1054	16. 30	·01112			
6. 6	49. 45	9. 51	·1057	20. 45	·01250			
10. 15	48. 40	11. 0	·1063	23. 30	·01302			
		14. 0	·1066					
16. 25	51. 35	16. 32	·1068					
	***	18. 0	·1075					
19. 59	51. 0	19. 0	·1075					
20. 21	49. 50	20. 15	·1076					
21. 0	51. 0	21. 0	·1074					
22. 0	50. 10	22. 0	·1066					
22. 20	47. 0	23. 0	·1060					
	***		***					
23. 30	49. 0	23. 59	·1052					
	***							
23. 59	50. 0							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 0	21. 51. 30	0. 0	·1052	0. 0	·01308	1. 40	45·2	44·0
	***	1. 0	·1048	3. 15	·01027	3. 40	45·0	45·5
2. 28	54. 10		***		·00744	9. 40	45·0	45·3
9. 8	49. 30	2. 6	·1044	4. 40	·00802	21. 40	40·5	42·0
9. 51	50. 0	4. 33	·1055	8. 32	·00748			
10. 22	48. 20	6. 12	·1054	14. 34	·00878			
10. 44	48. 15	9. 0	·1054	15. 50	·00831			
11. 9	44. 0		***	19. 30	·01065			
12. 0	47. 0	13. 0	·1057	23. 45	·01278			
12. 20	46. 25		***					
		14. 15	·1053					
13. 20	48. 0		***					
13. 55	45. 30	15. 50	·1074					
	***	16. 45	·1070					
14. 20	47. 0		***					
14. 40	58. 25	17. 0	·1062					
14. 50	55. 25	17. 35	·1066					
15. 7	58. 2	18. 15	·1060					
15. 52	44. 55	20. 0	·1062					
16. 6	45. 50		***					
16. 18	44. 20	21. 15	·1060					
16. 36	46. 30	22. 0	·1051					
17. 13	47. 0		***					
17. 40	51. 55	23. 45	·1044					
18. 6	52. 25							
18. 16	52. 0							
18. 31	49. 55							
18. 55	51. 20							
19. 24	50. 40							
19. 55	51. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 24								
h m	° ′ ″	h m		h m		h m	°	
20. 10	21. 54. 30							
20. 32	52. 40							
20. 49	54. 0							
21. 0	52. 30							
21. 25	54. 15							
22. 10	49. 20							
23. 5	51. 10							
23. 26	53. 35							
23. 50	52. 40							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 0	21. 53. 0	0. 0	·1048	0. 0	·01270	1. 40	44 ·5	44 ·8
0. 21	53. 15	***		1. 45:	·01240	3. 40	46 ·0	47 ·0
0. 45:	52. 5	1. 0	·1040	3. 45	·01002	9. 40	46 ·0	47 ·0
1. 36	54. 30	2. 7	·1043	5. 45	·00819	21. 40	41 ·0	42 ·0
1. 48	53. 40	3. 0	·1040	8. 30	·00777			
3. 15	56. 0	3. 15	·1042	9. 15	·00830			
3. 30	53. 25	3. 30	·1036	13. 28	·00928			
4. 0	54. 0	4. 23	·1043	18. 15	·01157			
4. 30	52. 25	5. 8	·1039	21. 30	·01264			
5. 31	50. 0	6. 0	·1040	23. 55	·01388			
6. 0	53. 20	7. 0	·1047					
	***		***					
7. 20	51. 0	7. 50	·1050					
11. 5	48. 30		***					
13. 8	49. 30	9. 0	·1048					
13. 27	48. 25		***					
13. 46	50. 0	10. 15	·1054					
14. 2	49. 15	11. 0	·1055					
	***		***					
14. 45	49. 35	13. 25	·1060					
15. 15:	46. 35	14. 0	·1063					
15. 51	50. 25	14. 15	·1054					
15. 59	49. 20		***					
16. 31	57. 0	15. 0	·1056					
17. 10	49. 15		***					
18. 0	49. 55	16. 30	·1046					
18. 41	48. 50	17. 0	·1064					
20. 15	51. 0	17. 25	·1058					
21. 5	53. 0	19. 0	·1066					
21. 55	50. 35	19. 40	·1068					
22. 20	51. 15	21. 0	·1060					
23. 10	49. 0	21. 30	·1054					
23. 28	50. 35	22. 20	·1049					
23. 59	51. 0		***					
		23. 30	·1047					
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 0	21. 52. 0	0. 0	·1046	0. 5	·01388	1. 40	44 ·8	45 ·0
0. 15	51. 0	1. 35	·1026	2. 45	·01260	3. 40	45 ·0	46 ·5
	***	1. 45	·1028	5. 0:	·01009	9. 40	45 ·0	46 ·5
1. 30	54. 0	2. 0	·1029	7. 48	·00852	21. 40	39 ·5	41 ·0
2. 0	50. 0	***		7. 56	·00990			
3. 10	52. 35	3. 0	·1041	9. 31	·00968			
4. 30	51. 10	***		14. 45	·01190			
5. 51	51. 0	5. 10	·1046	20. 0	·01492			
6. 8	49. 20	5. 45	·1043	21. 31	·01610			
6. 22	44. 0	6. 0	·1033	21. 40	·01570			
7. 0	48. 0	6. 8	·1036	23. 40	·01598			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 26		Jan. 26						
h m	° ′ ″	h m		h m		h m	°	
7. 30	21. 45. 25	6. 15	·1027					
8. 2	48. 30	6. 30	·1040					
8. 36	37. 0	6. 40	·1042					
9. 15	47. 0	7. 15:	·1037					
9. 30	45. 20	7. 34	·1040					
10. 2	49. 30	8. 10	·1037					
	***	8. 30	·1052					
14. 15	49. 0	8. 55	·1059					
14. 50:	50. 0	9. 15	·1052					
15. 30	49. 30	9. 23	·1046					
15. 55	54. 0	9. 50	·1042					
	***	10. 30	·1046					
16. 34	50. 5	11. 0	·1048					
17. 27	48. 0		***					
18. 0	49. 30	15. 30	·1056					
18. 55	49. 20	16. 0	·1061					
19. 30	48. 0	16. 20	·1062					
20. 0	49. 45	17. 0	·1056					
21. 0	50. 0	17. 30	·1060					
21. 10	52. 0	17. 45	·1058					
	***	19. 0	·1062					
22. 15	51. 15	20. 0	·1064					
23. 25	55. 0	20. 30	·1063					
23. 59	54. 0	21. 0	·1052					
		21. 33	·1055					
		22. 12	·1050					
		22. 30	·1054					
		22. 50	·1046					
		23. 35	·1042					
		23. 59	·1044					
Jan. 27		Jan. 27		Jan. 27		Jan. 27		
0. 0	21. 54. 0	0. 0	·1043	0. 2	·01630	1. 40	43 ·0	43 ·0
0. 8:	54. 10	0. 30	·1046	2. 15:	·01575	3. 40	45 ·5	46 ·5
1. 0	50. 15	2. 30	·1049	7. 0	·00810	9. 40	45 ·5	45 ·5
1. 31	50. 45	2. 50	·1047	7. 10	·00900	23. 1	39 ·0	40 ·0
1. 45	50. 5	3. 0	·1050	7. 45	·00910			
2. 23:	51. 35	3. 15	·1048	9. 30	·01000			
2. 51	50. 30	3. 30	·1045	15. 0	·01430			
3. 15	51. 10	4. 0	·1050	17. 32	·01630			
	***	4. 30	·1048	19. 45	·01595			
3. 54	49. 30	4. 52	·1042	23. 18	·01597			
4. 53	50. 25	5. 15	·1035					
5. 6	51. 40	5. 30	·1032					
5. 53	50. 0	6. 0	·1036					
6. 25	54. 0	6. 45	·1043					
7. 16	50. 30	7. 0	·1042					
7. 39	43. 10	7. 30	·1040					
8. 18	49. 25	8. 0	·1048					
	***	8. 30	·1044					
11. 49	48. 0	9. 0	·1046					
12. 14	44. 0	10. 0	·1050					
	***	10. 15	·1048					
13. 13	47. 0	10. 30	·1046					
13. 26	45. 30	11. 15	·1048					
14. 27	48. 30	12. 0	·1051					
14. 54	47. 30	12. 15	·1054					
16. 55	49. 45	12. 50	·1050					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 27		Jan. 27						
h m	° ′ ″	h m		h m		h m	°	°
18. 0	21. 48. 30	13. 0	·1048					
20. 45	50. 0	14. 0	·1054					
22. 0	50. 0	16. 0	·1056					
22. 55:	53. 50	17. 0	·1062					
23. 15	52. 30	17. 30	·1064					
23. 40	56. 5	19. 0	·1065					
23. 59	56. 0	20. 30	·1066					
		21. 0	·1068					
		22. 0	·1062					
		22. 55	·1056					
		23. 59	·1038					
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 0	21. 56. 0	0. 0	·1058	0. 0:	·01540	9. 33	40 ·0	42 ·5
1. 15	54. 0	0. 55	·1060	3. 5:	·01648	21. 40	38 ·0	41 ·0
1. 45	55. 30	2. 30	·1065	9. 34	·01540			
2. 11	54. 5	4. 50	·1057	13. 8	·01645			
4. 20	53. 25	5. 15	·1042		·01590			
5. 0	53. 35	5. 45	·1053	23. 59	·01583			
5. 25	51. 0	6. 0	·1060					
5. 55	51. 0	6. 30	·1062					
7. 14	48. 0	7. 0	·1064					
7. 45	49. 30	8. 30	·1056					
8. 34	49. 10	8. 45	·1050					
8. 56	45. 30	9. 25	·1054					
9. 15	48. 25	9. 45	·1070					
9. 44	40. 30	10. 0	·1060					
10. 42	48. 0	10. 25:	·1056					
11. 30	48. 0	10. 52	·1064					
12. 17	50. 0	11. 30	·1065					
	***	13. 30	·1063					
14. 0	50. 0	15. 25	·1064					
15. 0	51. 5	15. 45	·1074					
15. 15	50. 0	16. 0	·1076					
15. 47	55. 10		***					
16. 20:	50. 0	16. 45	·1066					
17. 21	47. 25	18. 20	·1066					
18. 45	50. 30	19. 0	·1070					
22. 46	49. 20	22. 10	·1064					
23. 53	55. 0	23. 59	·1038					
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 15	21. 53. 25	0. 0	·1036	0. 30	·01600	1. 40	43 ·0	43 ·0
0. 30	55. 0	0. 26	·1050	1. 15	·01558	3. 40	44 ·0	44 ·5
0. 55	53. 0	0. 40	·1045	4. 30	·01184	9. 40	44 ·0	44 ·0
1. 24	55. 50	1. 19	·1051	6. 15:	·00928	21. 40	38 ·0	39 ·5
1. 40	53. 0	1. 30	·1045	8. 10	·00815			
2. 29	53. 0		***	13. 0	·00984			
2. 51	54. 5	2. 17	·1052	13. 45	·00988			
3. 29	53. 0	2. 31	·1050	17. 15	·01197			
3. 49	46. 55	2. 52	·1055	19. 30	·01308			
4. 3	46. 0	3. 29	·1041	22. 43	·01438			
4. 39	51. 0	3. 40	·1031	23. 59	·01401			
5. 30	52. 0	3. 59	·1040					
	***	4. 17	·1054					
6. 36	51. 0		***					
7. 16	45. 50	6. 45	·1046					
7. 31	37. 30	7. 15	·1038					
7. 46	43. 55	7. 44	·1072					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Ja. 29		Jan 29						
h m	° ′ ″	h m		h m		h m	°	°
8. 13	21. 36. 55	8. 3	·1050					
8. 40:	45. 0	8. 18:	·1058					
10. 5	48. 25	9. 2	·1047					
10. 25	47. 35		***					
12. 0	49. 0	10. 0	·1052					
12. 45	47. 0	10. 17	·1049					
13. 8	48. 25	10. 41	·1053					
13. 25	52. 30	11. 29	·1051					
14. 5:	47. 55	12. 7	·1057					
14. 31	50. 30	13. 4	·1053					
15. 0	49. 25	13. 30	·1077					
15. 54	51. 30	14. 15	·1058					
	***	14. 28	·1061					
18. 39	48. 25	14. 45	·1060					
	***	16. 0	·1061					
21. 36	50. 0	17. 0	·1067					
	***	17. 42	·1062					
22. 41	48. 30	18. 41	·1062					
	***	20. 30	·1066					
23. 59	52. 0		***					
		22. 45	·1053					
			***					
		23. 59	·1044					
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
0. 0	21. 52. 0	0. 0	·1044	0. 5	·01414	1. 40	43 ·0	44 ·0
	***	1. 0:	·1048	4. 30	·01028	3. 40	44 ·8	45 ·0
1. 28	56. 25	1. 45	·1039	7. 38:	·00808	9. 40	44 ·0	44 ·5
	***	1. 58	·1041	9. 0	·00802	21. 40	37 ·5	38 ·5
2. 36	53. 10	2. 2	·1036	13. 30	·01062			
2. 49	55. 45		***	17. 30	·01348			
3. 29	52. 0	3. 20	·1050	20. 30	·01542			
3. 40	53. 0	3. 58	·1048	20. 55	·01568			
6. 3	48. 30	5. 33	·1049		·01490			
6. 48	49. 40	5. 55	·1045	23. 59	·01534			
8. 36	49. 30	8. 43	·1048					
8. 54	45. 20	8. 50	·1044					
	***		***					
11. 0	49. 30	14. 31	·1059					
14. 28	49. 30	14. 44	·1065					
14. 44	52. 0	15. 15	·1065					
15. 30	48. 0	15. 33	·1062					
15. 46	51. 30	16. 45	·1060					
17. 45	50. 30	17. 30	·1068					
18. 47	50. 0	20. 29	·1073					
20. 17	51. 55	21. 0	·1059					
21. 5	58. 30		***					
	***	21. 58	·1078					
22. 28	52. 0	22. 5	·1069					
22. 40	53. 5	22. 16	·1073					
23. 3	51. 0	22. 59	·1064					
23. 31	53. 35	23. 59	·1067					
23. 59	54. 0							
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 0	21. 54. 0	0. 0	·1067	0. 32	·01510	1. 40	39 ·0	40 ·0
0. 25	52. 15	0. 15	·1068	1. 15	·01538	3. 40	41 ·0	41 ·0
0. 30	52. 0	0. 30	·1067	3. 30:	·01502	9. 40	41 ·0	41 ·5
1. 3	50. 10	1. 0	·1057	5. 0	·01370	21. 40	37 ·0	38 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 31		Jan. 31		Jan. 31		h m	°	°
h m	° ′ ″	h m		h m				
1. 19	21. 53. 10	1. 8	·1059	7. 45	·01176			
1. 59	21. 53. 0	1. 30	·1052	8. 30	·01164			
				15. 0	·01199			
3. 14	22. 0. 20	2. 20	·1047	19. 15	·01368			
3. 35	21. 55. 25			21. 30	·01450			
4. 6:	57. 10	2. 40	·1052	23. 59	·01500			
4. 22	53. 55							
4. 33	54. 0	3. 5	·1049					
4. 51:	52. 0	3. 16	·1038					
5. 12	54. 30	3. 58	·1043					
5. 32	51. 45							
5. 59	56. 0	4. 14	·1030					
6. 55	47. 55	4. 25	·1040					
7. 20	49. 40	4. 35	·1039					
7. 36	44. 40	5. 13	·1052					
7. 45	47. 0	5. 29	·1041					
7. 50	45. 0	5. 44	·1045					
8. 10	48. 0	6. 5	·1036					
8. 30	44. 25	6. 30	·1042					
8. 54	48. 30	6. 45	·1039					
		7. 15	·1049					
10. 10	49. 0	7. 28	·1045					
11. 38	47. 0	7. 36	·1051					
		7. 46	·1049					
14. 33	50. 0	7. 55	·1051					
15. 0	49. 0	8. 10	·1045					
17. 0	50. 25	8. 31	·1054					
17. 50	53. 20							
18. 24	50. 5	9. 0	·1051					
19. 2	49. 30	9. 44	·1056					
21. 15	50. 45	9. 55	·1051					
22. 0	49. 0	11. 30	·1058					
23. 5	49. 10	13. 0	·1056					
23. 59	51. 55	13. 30	·1062					
		14. 20	·1059					
		14. 45	·1063					
		16. 7	·1064					
		16. 55	·1070					
		17. 30	·1064					
		18. 36	·1071					
		20. 20	·1067					
		21. 30	·1071					
		23. 15	·1056					
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 0	21. 52. 0	0. 9	·1054	0. 14	·01478	1. 40	39 ·5	40 ·0
0. 15	50. 5	2. 55	·1058	1. 14:	·01481	3. 40	43 ·0	43 ·0
		3. 44	·1061	4. 28	·01230	9. 40	41 ·5	42 ·0
2. 24	54. 25			7. 31:	·00904	21. 40	35 ·5	36 ·5
		4. 35	·1059	10. 27	{·00921 ·00974}			
3. 25	51. 10	5. 8	·1045					
4. 50	53. 0	5. 45	·1044	15. 12	·01188			
5. 15	51. 55	6. 3	·1056	19. 45	{·01498 ·01450}			
6. 14	50. 0							
7. 0	52. 0	7. 52	·1052	22. 20	·01430			
8. 0	48. 15			23. 59	·01498			
		9. 48	·1056					
10. 41	48. 20	11. 1	·1065					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 1		Feb. 1						
h m	° ′ ″	h m		h m		h m	°	°
10. 59	21. 44. 0							
11. 30	47. 5	11. 43	·1059					
13. 40	50. 0							
		12. 8	·1063					
15. 35	49. 30	14. 4	·1071					
16. 41	52. 0							
17. 15	50. 30	16. 55	·1073					
17. 44	47. 0	17. 16	·1075					
18. 23	49. 30	19. 15	·1084					
		20. 20	·1074					
20. 15	50. 55	20. 42	·1082					
20. 30	52. 30							
21. 3	51. 0	22. 0	·1077					
21. 30	52. 5							
22. 14	49. 55	23. 30	·1063					
23. 20	49. 0	23. 59	·1067					
23. 46	49. 25							
23. 59	51. 0							
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 0	21. 51. 0	0. 0	·1067	0. 20	·01487	1. 40	38 ·5	39 ·0
		2. 59	·1062	1. 21:	·01488	3. 40	41 ·0	41 ·0
3. 46	52. 50	4. 40	·1065	4. 7	·01268	9. 40	40 ·0	41 ·0
		5. 31	·1056	6. 52:	·01008	21. 40	37 ·5	38 ·0
11. 0	47. 55			8. 19:	·00933			
11. 45	48. 45	6. 32	·1061	13. 40	·01041			
12. 45	47. 0	7. 43	·1067	19. 2	·01109			
13. 50	49. 5	9. 30	·1066	23. 57	·01180			
		9. 46	·1068					
17. 25	51. 45	10. 4	·1065					
	(†)	10. 45	·1068					
21. 0	50. 5	11. 50	·1071					
22. 36	49. 0	13. 6	·1069					
23. 59	50. 15	15. 2	·1075					
		15. 25	·1072					
		16. 59	·1076					
		17. 34	·1083					
		19. 30	·1086					
		21. 2	·1083					
		22. 45	·1073					
		23. 39	·1068					
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
0. 0	21. 50. 15	0. 0	·1062	0. 0	·01119	1. 40	41 ·5	42 ·0
1. 35	52. 0	1. 10	·1063	1. 35:	·01060	3. 40	44 ·0	44 ·0
2. 30:	54. 0	1. 30	·1059	4. 26	·00750	9. 40	43 ·5	46 ·5
3. 31	52. 30			4. 30	·00779	23. 28	43 ·0	44 ·0
3. 50	52. 20	4. 39	·1058	5. 58:	·00800			
4. 38	52. 0	5. 20	·1054	8. 16	·00778			
	(†)	6. 6	·1057	11. 14	·00740			
5. 54	45. 0	7. 6	·1046	17. 55	·00732			
6. 13	46. 0	7. 21	·1052	23. 29	·00920			
6. 23	52. 0	7. 40	·1071					
6. 38	45. 30	7. 45	·1071					
		7. 53	·1077					
6. 54	47. 35	8. 7	·1072					
		8. 15	·1065					
7. 20	39. 0	8. 45:	·1071					
		9. 14	·1055					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 3		Feb. 3						
h m	° ′ ″	h m		h m		h m		
7. 26	21. 41. 0	9. 30	·1053					
	***	9. 50	·1059					
7. 46	34. 0	10. 10	·1055					
	***	11. 29	·1060					
9. 0	46. 0	11. 46	·1056					
	***	12. 10	·1061					
11. 15	48. 0	15. 20	·1057					
	***	16. 0	·1053					
12. 7	44. 55	16. 29	·1063					
	***	16. 53	·1065					
12. 28	47. 45	17. 6	·1059					
	***	17. 32	·1068					
12. 57	42. 0		***					
	***	18. 30	·1062					
13. 15	42. 0	19. 0	·1071					
	***	19. 34	·1062					
13. 36	44. 25	20. 15	·1066					
	***	20. 35	·1062					
15. 38	46. 0	21. 40	·1066					
16. 15	54. 0	21. 59	·1063					
16. 36	49. 0	22. 18	·1066					
17. 0	53. 0	23. 20	·1052					
18. 5	45. 55							
18. 20	47. 0							
19. 29	45. 10							
19. 50	48. 30							
21. 10	46. 30							
23. 59	48. 0							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
0. 0	21. 48. 0	0. 0	·1051	0. 0	·00912	9. 34	43 ·5	44 ·5
0. 10	49. 0	0. 30	·1046	4. 47	·01003	21. 40	42 ·5	44 ·0
0. 16	47. 25	0. 45	·1058	10. 20	·00940			
0. 35	48. 50		***	13. 35	·00900			
	***	2. 25	·1055	17. 5	·01061			
2. 15	49. 40	4. 4	·1062	22. 10	·01090			
	***	4. 45	·1056	23. 59	·01118			
5. 0	48. 0	7. 15	·1056					
	***	9. 0	·1045					
8. 35	46. 0	9. 25	·1046					
9. 5	41. 0	9. 45	·1053					
9. 30	41. 35	10. 0	·1047					
9. 56	45. 0	10. 30	·1050					
	***	10. 50	·1056					
10. 46	44. 0	11. 4	·1052					
10. 59	46. 0	11. 30	·1074					
11. 21	45. 0	12. 0	·1059					
11. 30	46. 0	13. 0	·1054					
12. 0	43. 40	15. 30	·1062					
	***	16. 0	·1059					
12. 30	46. 5	20. 30	·1067					
12. 55	45. 0	21. 0	·1061					
	***	21. 30	·1062					
15. 22	48. 0	22. 7	·1058					
15. 46	51. 5	23. 53	·1054					
16. 20	48. 0							
17. 5	48. 40							
18. 45	48. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 4								
h m	° ′ ″	h m		h m		h m		
20. 54	21. 46. 0							
	***							
21. 45	47. 0							
22. 23	50. 35							
	***							
23. 5	49. 30							
	***							
23. 59	50. 35							
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 0	21. 50. 40	0. 1	·1053	0. 50	·01050	1. 40	45 ·8	46 ·0
	***	2. 3	·1056	1. 47	·01000	3. 40	48 ·1	48 ·0
0. 30	52. 0	2. 45	·1057	3. 30	·00805	9. 40	49 ·0	49 ·3
1. 21	50. 35	3. 0	·1058		·00870	21. 40	43 ·5	44 ·5
3. 14	52. 45	3. 20	·1055	7. 30	·00824			
5. 20	49. 25		***	9. 35	·00800			
	***	4. 0	·1056	12. 15	·00852			
8. 0	48. 0	4. 30	·1052	16. 30	·01064			
	***	5. 0	·1048	21. 15	·01365			
11. 20	46. 0	5. 37	·1042	23. 59	·01508			
11. 39	40. 30	6. 45	·1050					
	***	8. 20	·1052					
12. 9	44. 0	9. 33	·1054					
	***	11. 30	·1058					
14. 0	48. 0	12. 0	·1056					
	***	13. 30	·1056					
15. 31	48. 0	15. 30	·1058					
	***		***					
21. 5	47. 55	17. 30	·1060					
21. 55	51. 45	19. 6	·1065					
22. 22	49. 30		***					
23. 16	48. 35	20. 46	·1060					
23. 59	40. 55	21. 26	·1051					
		23. 6	·1051					
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 0	21. 40. 55	0. 15	·1056	0. 10	·01528	1. 40	46 ·2	47 ·0
0. 35	48. 0	1. 15	·1050	3. 30	·01358	3. 40	47 ·5	48 ·5
0. 50	49. 40	2. 1	·1053	7. 45	·01128	9. 40	46 ·0	46 ·5
	***	3. 57	·1052	11. 15	·01198	21. 40	42 ·0	43 ·0
1. 50	50. 0	5. 53	·1050	16. 15	·01527			
2. 10	52. 0	8. 5	·1058	18. 45	·01698			
2. 39	49. 35	12. 45	·1056	21. 30	·01610			
2. 45	51. 0	16. 40	·1066	23. 59	·01628			
4. 30	50. 30	19. 45	·1073					
	***		***					
5. 57	46. 0	23. 8	·1062					
	***	23. 59	·1062					
10. 10	46. 30							
	***							
12. 5	45. 5							
	***							
16. 30	48. 30							
	***							
21. 0	47. 0							
21. 25	48. 35							
21. 40	47. 0							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 6								
h m	° ′ ″	h m		h m		h	°	°
22. 23	21. 50. 30							
	***							
23. 40	48. 45							
	***							
23. 59	49. 0							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	21. 49. 0	0. 0	·1062	0. 15	·01640	1. 40	44 ·0	44 ·8
1. 6	48. 25	1. 15	·1058	2. 30:	·01538	3. 40	46 ·0	46 ·0
	***	2. 43	·1060	6. 45	·01188	9. 40	44 ·0	45 ·0
1. 23	50. 15	4. 10	·1058	8. 50	·01150	21. 40	39 ·0	39 ·8
1. 35	49. 0	6. 21	·1052	11. 30	·01238			
1. 45	50. 5	6. 45	·1057	15. 30	·01438			
	***	8. 32	·1057	17. 48	{ ·01617			
2. 27	49. 35	10. 15	·1065		{ ·01565			
2. 32	50. 40	10. 47	·1063	21. 0	·01560			
3. 9	49. 55	15. 35	·1066	23. 59	·01559			
3. 30	50. 55	15. 43	·1069					
	***	18. 35	·1074					
4. 0	50. 45	19. 17	·1072					
	***	20. 30	·1074					
4. 55	47. 0	22. 31	·1069					
	***	22. 41	·1077					
7. 45	46. 30	23. 13	·1071					
	***	23. 59	·1069					
8. 8	44. 0							
	***							
8. 44	45. 30							
	***							
9. 0	44. 0							
	***							
11. 54	44. 30							
	***							
16. 10	47. 0							
	***							
19. 44	46. 0							
	***							
20. 10	44. 30							
	***							
20. 45	47. 0							
	***							
21. 3	46. 0							
	***							
21. 39	47. 0							
	***							
21. 51	49. 30							
	***							
22. 30	47. 0							
	***							
23. 53	50. 20							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 5	21. 51. 0	0. 6	·1069	0. 10	·01545	1. 40	42 ·5	43 ·0
0. 44	52. 0	1. 45	·1065	1. 33:	·01496	3. 40	44 ·0	44 ·0
0. 54	50. 5	2. 34	·1071	4. 0	·01387	9. 40	44 ·0	44 ·5
	***	3. 32	·1071		***	21. 48	40 ·0	41 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 8		Feb. 8						
h m	° ′ ″	h m				h m	°	°
2. 12	21. 53. 30	3. 30	·1078	Feb. 8				
2. 21	52. 0			h m				
2. 35	53. 20	4. 45	·1064	5. 45	·01200			
3. 20	51. 40							
3. 29	54. 0	5. 59	·1028	6. 20	·01202			
3. 46	53. 55	6. 15	·1044					
		6. 32	·1032	7. 0	·01208			
4. 40	59. 40	6. 52	·1041	8. 0	·01127			
4. 51	50. 50			8. 15	·01152			
		7. 13	·1014	8. 40	·00965			
5. 30	50. 0	7. 29	·1033	11. 30	·01060			
				14. 0	·01147			
5. 59	54. 30	7. 45	·1038	18. 0	·01377			
7. 0	49. 30	7. 58	·1031	21. 22	·01553			
7. 20	42. 0	8. 14	·1095	22. 15	{ ·01593			
7. 50	48. 0	8. 30	·1039		{ ·01540			
8. 11	31. 0	8. 43	·1043	23. 59	·01562			
8. 21	58. 0							
8. 35	48. 15	8. 59	·1035					
8. 49	48. 55	9. 5	·1042					
		9. 21	·1029					
9. 0	44. 0	9. 35	·1039					
9. 10	44. 0	10. 16	·1043					
		10. 30	·1041					
9. 30	32. 0	11. 40	·1058					
		11. 48	·1065					
10. 9	41. 55	12. 15	·1053					
		12. 30	·1055					
11. 25	49. 20							
11. 36	44. 30	12. 54	·1040					
		13. 15	·1050					
13. 0	41. 0	13. 41	·1047					
13. 20	46. 55	15. 0	·1051					
		15. 21	·1055					
14. 30	47. 15							
		17. 44	·1058					
15. 30	45. 0	19. 0	·1057					
		19. 21	·1062					
16. 35	47. 0	19. 45	·1060					
		19. 53	·1068					
17. 38	45. 0	20. 20	·1059					
		21. 22	·1057					
19. 19	49. 55	21. 44	·1052					
19. 30	47. 55	21. 59	·1053					
		22. 44	·1048					
20. 30:	48. 0	23. 37	·1047					
			***					
22. 5	54. 0	23. 56	·1042					
22. 20	52. 30							
22. 32	54. 0							
22. 48	51. 35							
23. 59	54. 30							
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
0. 0	21. 55. 25	0. 0	·1044	0. 25	·01572	1. 40	43 ·0	44 ·0
	***		***	1. 10	·01590	3. 40	43 ·5	43 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 51	21. 52. 50	1. 7	·1051	4. 54	·01412	9. 40	42 ·0	42 ·5
1. 23	55. 25	1. 39	·1053	7. 33:	·01260	21. 40	36 ·0	37 ·0
1. 50	54. 30	1. 59	·1049	8. 46	·01280			
2. 0	56. 0	2. 49	·1053	11. 20	·01370			
2. 58	53. 10	3. 30	·1052	15. 18	·01563			
3. 6	54. 30		***		·01520			
3. 25	52. 30	4. 36	·1030	19. 27	·01500			
3. 35	53. 55	4. 46	·1034	22. 55	·01462			
3. 46	53. 10	4. 55	·1030	23. 59	·01502			
4. 0	55. 0	5. 26	·1036					
4. 24	54. 15	5. 40	·1042					
4. 47	47. 30	5. 59	·1040					
6. 0	45. 10	7. 20	·1051					
	***	7. 48	·1048					
7. 10	45. 30	8. 20	·1050					
7. 29	48. 5	8. 45	·1046					
	***	9. 31	·1052					
8. 15	48. 0	10. 25	·1043					
8. 55	40. 35	11. 0	·1052					
9. 4	41. 55	11. 55	·1051					
	***		***					
9. 43	42. 0	12. 30	·1059					
9. 55	45. 10	12. 45	·1054					
	***	15. 16	·1058					
11. 55	44. 40	15. 46	·1066					
	***		***					
12. 24	49. 0	17. 0	·1063					
12. 46	45. 30	19. 10	·1069					
	***	20. 45	·1063					
13. 16	44. 25	21. 29	·1067					
	***	22. 5	·1066					
15. 10	47. 10	22. 36	·1070					
	***	23. 59	·1060					
15. 57	45. 0							
16. 30	48. 0							
16. 53	46. 35							
	***							
18. 48	50. 40							
	***							
20. 31	48. 25							
	(†)							
22. 0	50. 25							
22. 21	51. 35							
	***							
23. 0	51. 30							
23. 20	49. 35							
23. 31	50. 55							
23. 42	49. 0							
23. 59	50. 30							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 0	21. 50. 30	0. 0	·1060	1. 50	·01401	1. 40	39 ·0	40 ·0
0. 48	50. 45	0. 34	·1062	2. 30	·01320	3. 40	43 ·0	44 ·0
	(†)	2. 17	·1052	5. 17	·00743	9. 40	41 ·0	42 ·0
2. 36	52. 0	2. 42	·1054	5. 50	·00681	23. 10	29 ·0	29 ·5
3. 41	52. 20	4. 10	·1051	5. 58	·00706			
	(†)	4. 22	·1055	8. 33:	·00649			
7. 52	48. 0	4. 44	·1053	10. 34	·00742			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 10		Feb. 10		Feb. 10				
h m	° ′ ″	h m		h m		h m	°	°
8. 29	21. 42. 35	5. 0	·1056	13. 3	·00987			
		5. 11	·1053	16. 41	·01430			
9. 15	44. 20				·01380			
9. 30	45. 30	7. 8	·1058	21. 42	·01420			
		8. 14	·1049	21. 46	·01320			
11. 15	46. 10	8. 22	·1057	23. 22	·01281			
11. 51	48. 0	9. 17	·1057					
12. 2	46. 0	9. 40	·1054					
14. 20	46. 55	12. 52	·1061					
15. 15	48. 0	13. 44	·1060					
15. 50	46. 45	16. 49	·1071					
	(†)	17. 35	·1075					
18. 30	48. 30	18. 33	·1076					
		20. 48	·1081					
20. 52	46. 30	21. 50	·1078					
22. 41	49. 20	23. 59	·1077					
23. 15	49. 0							
23. 59	49. 25							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 0	21. 49. 25	0. 0	·1077	0. 0	·01272	8. 15	35 ·5	37 ·0
0. 22	49. 25	1. 0	·1070	4. 32	·01090	21. 40	35 ·0	36 ·0
		1. 16	·1071	8. 40	·00652			
1. 28	52. 0	2. 22	·1088	9. 50	·00594			
2. 8:	52. 5	2. 50	·1073	10. 3	·00600			
2. 43	54. 15	3. 44	·1078	10. 17	·00584			
		4. 15	·1052	13. 20	·00594			
3. 44	54. 5	4. 31	·1062	14. 47	·00531			
3. 59	55. 35	4. 39	·1055	17. 54	·00642			
4. 11	55. 20	5. 8	·1074	21. 58	·00759			
4. 22	52. 0	5. 30	·1083	23. 59	·00746			
4. 30	55. 5	6. 5	·1075					
4. 45	52. 0	6. 20	·1083					
6. 3	46. 0	6. 44	·1081					
		7. 0	·1074					
6. 46	50. 10	7. 30	·1075					
		7. 49	·1090					
7. 15	48. 25	8. 4	·1079					
7. 34	42. 0	8. 56	·1066					
7. 58	48. 15	9. 44	·1071					
		10. 6	·1100					
8. 51	46. 55	10. 32	·1070					
		10. 46	·1068					
9. 29	48. 0	11. 8	·1074					
9. 54	39. 35	13. 29	·1078					
10. 14	48. 10	14. 31	·1074					
		14. 40	·1077					
10. 55	41. 30	15. 10	·1070					
11. 18	44. 50							
		16. 30	·1075					
13. 1	45. 10							
		16. 52	·1080					
13. 51	41. 25	17. 14	·1073					
		17. 31	·1076					
14. 17	42. 50							
		17. 55	·1069					
15. 0:	41. 25	18. 46	·1079					
		18. 59	·1075					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 11		Feb. 11						
h m	° ′ ″	h m		h m		h m		
15. 51	21. 45. 30	19. 15	·1076					
16. 11	41. 20	19. 46	·1085					
16. 22	43. 35	21. 14	·1081					
16. 36	43. 15	22. 16	·1085					
	***	22. 48	·1078					
17. 46	44. 35	23. 14	·1066					
18. 9	48. 30	23. 59	·1062					
19. 0	49. 55							
19. 30	48. 30							
20. 14	48. 0							
20. 45	50. 20							
21. 44	49. 25							
21. 57	52. 0							
22. 26	49. 25							
22. 46	50. 10							
23. 16	49. 5							
23. 30	52. 0							
23. 59	52. 10							
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
0. 0	21. 52. 15	0. 0:	·1062	0. 33	·00711	1. 40	41 ·0	42 ·5
0. 23	51. 10	0. 30	·1067	1. 18	·00669	3. 40	44 ·0	45 ·0
0. 55	53. 30		***		·00720	9. 40	44 ·0	44 ·0
1. 5	52. 55	1. 30	·1055	3. 32	·00864	21. 40	36 ·5	37 ·0
1. 36	54. 50	2. 14	·1059	4. 42	·00875			
2. 32	54. 0	3. 5	·1062	5. 26	·00854			
	***	3. 20	·1053	6. 27	·00898			
2. 55	21. 58. 0	3. 34	·1054	7. 10	·00920			
	***	3. 46	·1041	8. 0	·00918			
3. 44	22. 0. 30	4. 0	·1057	9. 30	·00990			
4. 0	21. 51. 20	4. 27	·1056	9. 57	·00999			
4. 30	50. 25	4. 40	·1065	10. 20	·00955			
4. 44	52. 20	4. 59	·1057	10. 30	·00964			
	***	5. 22	·1062	10. 35	·00950			
6. 45	41. 20	5. 34	·1054	10. 45	·00965			
	***	5. 44	·1054	11. 0	·00940			
7. 21	42. 0	6. 1	·1041	11. 15	·01011			
	***	6. 15	·1047	12. 32	·01020			
7. 50	47. 45	6. 25	·1036	12. 15	·01110			
8. 6	43. 30	6. 48	·1055	14. 10	·01188			
8. 15	46. 5	7. 0	·1069	17. 14	·01465			
8. 30	43. 30	7. 28	·1062	18. 46	·01618			
8. 40	45. 10	7. 44	·1054	18. 48	·01568			
9. 0	52. 0	7. 58	·1039	21. 20	·01600			
9. 16	44. 0	8. 10	·1044	23. 59	·01630			
9. 32	30. 30	8. 28	·1042					
9. 53	36. 30	8. 39	·1044					
10. 14	53. 55	8. 55	·1036					
10. 27	36. 0	9. 7	·1044					
10. 41	44. 55	9. 27	·1043					
10. 47	43. 15	10. 0	·1082					
10. 59	44. 0	10. 8	·1074					
11. 14	30. 0	10. 16	·1075					
11. 35	43. 10	10. 30	·1088					
11. 52	37. 30	10. 40	·1075					
12. 17	37. 0	10. 46	·1083					
12. 40	53. 35	11. 2	·1072					
13. 5	37. 25	11. 15	·1076					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 12		Feb. 12						
h m	° ′ ″	h m		h m		h m	°	°
14. 0	21. 53. 0	11. 40	·1063					
15. 0	33. 55	12. 32	·1072					
15. 47	46. 0	13. 14	·1081					
16. 6	44. 15	14. 31	·1054					
16. 30	47. 30	16. 9	·1058					
16. 52	44. 20	16. 50	·1052					
17. 15	44. 0	17. 31	·1057					
17. 33	48. 0	18. 15	·1062					
17. 50	48. 30	18. 25	·1067					
18. 44	48. 0	21. 8	·1056					
19. 30	50. 55	21. 38	·1059					
19. 51	49. 25	21. 47	·1055					
	***	22. 11	·1057					
20. 29	51. 0	22. 43	·1051					
21. 1	48. 30	23. 15	·1054					
21. 33	51. 0	23. 50	·1053					
23. 13	50. 25							
23. 59	51. 55							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	21. 52. 0	1. 40	·1049*	0. 45	·01588	1. 40	39 ·0	40 ·0
0. 45	54. 30	3. 40	·1052*	2. 46	·01486	3. 40	41 ·0	42 ·0
1. 0	51. 35	9. 40	·1065*	3. 30	·01460	9. 50	39 ·0	39 ·0
1. 15	55. 25	21. 40	·1066*	6. 21	·01185	21. 40	31 ·0	33 ·0
	***			8. 1	·01139			
2. 15	52. 35			8. 4	·01220			
2. 32	54. 30			10. 58	·01351			
3. 15	52. 40			14. 57	·01582			
3. 43	52. 55				·01536			
3. 45	55. 35			18. 51	·01493			
3. 51	51. 0			23. 59	·01478			
3. 55	55. 5							
4. 1	52. 0							
4. 6	53. 10							
	***							
4. 43	49. 0							
	***							
8. 51	45. 35							
	***							
11. 0	45. 50							
	***							
11. 50	44. 0							
12. 46	45. 30							
13. 26	44. 30							
14. 45	45. 30							
15. 8	47. 0							
16. 19	46. 25							
21. 11	46. 20							
21. 46	47. 35							
22. 14	46. 25							
23. 59	50. 25							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
1. 40	21. 54. 0	1. 40	·1059*	0. 43	·01449	1. 40	35 ·0	37 ·0
3. 40	55. 40*	3. 40	·1060*	1. 21	·01422	3. 40	39 ·0	40 ·0
9. 0	37. 0	9. 40	·1047*	3. 6:	·01200	9. 40	41 ·0	41 ·5
21. 0	46. 14*	21. 40	·1057*	4. 30	·00899	21. 40	36 ·0	37 ·0
				5. 35	·00690			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

February 14. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for reduction to numbers.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
h m	° ′ ″	h m		Feb. 14 h m		h m	°	°
				5. 37	·00730			
				6. 21:	·00759			
				8. 20	·00699			
				8. 31	·00638			
				10. 10	·00649			
				14. 12	·00660			
				18. 51	·00965			
				23. 25	·01239			
				23. 54	·01260			
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 51	21. 42. 0	1. 40	·1058*	0. 45	·01245	1. 40	39 ·0	40 ·0
1. 4	43. 0	3. 40	·1055*	3. 2	·00962	3. 40	43 ·0	43 ·5
3. 0	41. 0	9. 45	(†)		(†)	9. 40	44 ·0	45 ·0
3. 15	41. 10	10 29:	·1057	9. 27	·01029	21. 40	35 ·0	36 ·0
	(†)	11. 4	·1056	11. 19	·01113			
7. 0	34. 35	11. 15	·1070	14. 39	·01420			
9. 0:	34. 25	11. 44	·1068	16. 57	·01642			
9. 29:	38. 20	12. 35	·1072		·01586			
9. 53	34. 35	14. 15	·1061	19. 34	·01579			
	***	17. 16	·1068	21. 57	·01569			
10. 52	34. 20	18. 43	·1069		·01360			
11. 8	35. 55	21. 25	·1075	23. 59	·01424			
11. 33	33. 0	22. 55	·1073					
11. 48	34. 10	23. 29	·1060					
12. 6	31. 0	23. 59	·1062					
12. 48	35. 5		·1058					
13. 5	34. 15							
	***							
15. 20	36. 10							
	***							
18. 0	35. 0							
	(†)							
20. 45	37. 0							
21. 30	35. 55							
	***							
23. 59	37. 30							
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 0	21. 37. 30	0. 0	·1058	0. 47	·01409	1. 40	40 ·0	41 ·0
1. 48	44. 25	2. 15	·1064	2. 50	·01128	3. 40	33 ·0	44 ·0
	***	3. 55	·1054	5. 0	·00836	9. 40	42 ·5	42 ·5
2. 40	44. 45	4. 32	·1055		·00990	21. 40	33 ·0	33 ·5
4. 59	41. 25	5. 11	·1051	6. 59	·00850			
	***	6. 51	·1048	7. 5	·00929			
9. 5	37. 20	7. 44	·1058	8. 15	·00960			
	***	13. 7	·1072	10. 25	·01175			
9. 44	36. 0	13. 39	·1067	12. 50	·01451			
	***	13. 50	·1071	13. 40	·01519			
12. 44	35. 40	16. 52	·1070	15. 30	·01480			
	***	17. 30	·1079	16. 39	·01500			
14. 4	37. 10	18. 22	·1079	22. 17	·01442			
15. 44	36. 30	20. 7	·1083	23. 58	·01454			
	***	20. 44	·1081					
18. 12	38. 0	21. 18	·1083					
	***	22. 17	·1075					
21. 0	37. 55	22. 34	·1078					
21. 35:	39. 50	23. 28	·1071					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Feb. 16 h m	° ′ ″	Feb. 16 h m		h m		h m	°	°
22. 15	21. 37. 0	23. 59	·1057					
22. 26	38. 0							
22. 45	36. 50							
23. 55	39. 25							
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 0	21. 51. 0	0. 0	·1057	0. 0	·01409	1. 40	38 ·0	39 ·0
0. 52	52. 0	2. 35	·1048	0. 45	·01457	3. 40	39 ·0	39 ·5
2. 21	56. 20	3. 47	·1048	1. 52	·01322	9. 40	39 ·0	39 ·0
2. 52	56. 0	4. 44	·1004	4. 15	·00972	23. 37	31 ·0	31 ·0
3. 2	57. 0	4. 50	·1044	5. 52	·00760			
3. 20	56. 5	5. 38	·1046	7. 13	·00660			
3. 39	57. 30	6. 22	·1025	8. 47	·00660			
5. 0	54. 20	7. 0	·1021	9. 0	·00626			
6. 0	52. 0	7. 8	·1025	9. 25	·00659			
6. 31	50. 0	7. 29	·1019	10. 30	·00670			
7. 0	49. 50	7. 58	·1016	12. 17	·00800			
	***	8. 14	·1020	15. 47	·01119			
8. 25	43. 0	8. 44	·1037	19. 4	·01403			
8. 45	47. 50	9. 0	·1023		·01360			
9. 6	37. 0	9. 27	·1041	22. 13	·01344			
	(†)	10. 2	·1031	22. 26	·01308			
9. 40	37. 44*	12. 13	·1041	23. 46	·01310			
23. 37	51. 0*	12. 45	·1049					
			(†)					
		23. 37	·1048*					
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 45	21. 54. 0	0. 0	·1046	0. 13	·01302	9. 48	35 ·0	37 ·0
1. 39:	56. 40	1. 15	·1052	1. 19	·01280	21. 40	27 ·5	29 ·5
3. 1	55. 30	1. 47	·1033	1. 28	·01254			
3. 40:	55. 15	2. 25	·1041	1. 47	·01241			
4. 19	53. 40	2. 30	·1039	3. 47	·01129			
	(†)	5. 15	·1057	6. 37	·00769			
6. 6	49. 20	5. 25	·1055	8. 15	·00550			
6. 44:	51. 0	6. 0	·1057	10. 28	·00498			
7. 43	44. 30	6. 28	·1064	11. 33	·00457			
8. 46	44. 0	7. 39	·1041	15. 10	·00710			
	***	8. 0	·1046	17. 0	·00899			
10. 30	48. 0	8. 15	·1042	20. 45	·01255			
10. 53	46. 50	8. 30	·1046	21. 46	·01323			
	***	10. 44	·1051	22. 1	·01308			
12. 0	47. 0	11. 0	·1048	22. 5	·01230			
12. 27	48. 30	12. 10	·1053	23. 55	·01170			
	***	12. 35	·1046					
13. 4	46. 0	14. 14	·1053					
13. 38	48. 0	14. 16	·1049					
14. 1	46. 0	14. 30	·1055					
14. 32	54. 55	14. 56	·1052					
14. 55	50. 20	15. 16	·1058					
15. 16	46. 30	16. 0	·1049					
15. 43	46. 35	16. 50	·1048					
16. 23	49. 40	17. 31	·1033					
16. 39	48. 10	18. 14	·1043					
17. 30	50. 40	18. 44	·1037					
	(†)	19. 14:	·1041					
21. 6	44. 0	19. 54	·1055					
21. 45	52. 0	20. 0	·1051					
	***	20. 31	·1058					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 18		Feb. 18						
h m	° ′ ″	h m		h m		h m	°	°
22. 36	21. 49. 55	20 45	·1056					
22. 53	51. 30	21. 0	·1060					
			***					
23. 5	50. 5							
23. 59	51. 0	22. 35	·1061					
		23. 44	·1054					
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 0	21. 51. 10	0. 0	·1036	0. 30	·01184	1. 40	33 ·0	34 ·0
0. 10	52. 20	1. 50	·1041	1. 47:	·01124	3. 40	36 ·5	37 ·5
0. 27	51. 40	3. 43	·1033	4. 12	·00722	9. 45	40 ·2	40 ·5
	***	4. 3	·1037	6. 32	·00774	21. 40	34 ·5	36 ·0
0. 44	53. 20	4. 32	·1033	8. 45	·00698			
0. 54	55. 25	5. 15	·1036	11. 40	·00758			
1. 13	53. 0		***	15. 10	·00813			
	**	6. 14	·1024	16. 18	·00824			
3. 23	54. 0	6. 34	·1027	19. 28	·01047			
5. 0	51. 45	6. 57	·1036	21. 45	·01235			
5. 39	51. 55	7. 22	·1031	23. 58	·01349			
6. 20:	43. 5	8. 10	·1032					
6. 31	46. 10	8. 36	·1028					
	***	9. 16	·1026					
7. 13	45. 30	9. 31	·1047					
	***	9. 46	·1034					
8. 33	49. 10	9. 57	·1044					
	***	10. 2	·1046					
8. 50	45. 30	10. 27	·1033					
	***	10. 45	·1038					
9. 0	46. 0	10. 59	·1031					
	***	11. 14	·1034					
9. 37	35. 30	14. 40	·1042					
	***	15. 7	·1051					
9. 51	36. 35	15. 15	·1048					
10. 10	48. 0	15. 45	·1059					
	***		***					
10. 39	49. 5	16. 25	·1040					
10. 47	46. 0		***					
	***	17. 22	·1044					
14. 15	48. 5	17. 31	·1048					
14. 44	46. 45	18. 14	·1045					
14. 50	48. 30	18. 50	·1054					
15. 20	38. 30	19. 44	·1044					
16. 0	41. 20	21. 0	·1052					
16. 23	42. 0	21. 33	·1042					
16. 33	45. 30	22. 20:	·1046					
16. 46	44. 30	23. 14	·1036					
17. 44	46. 30	23. 30	·1036					
18. 16	48. 0							
19. 0	47. 0							
20. 9	50. 5							
20. 20	46. 15							
20. 52	52. 55							
21. 17	50. 0							
21. 50	52. 5							
21. 59	50. 40							
	***							
22. 38	56. 0							
23. 21	53. 30							
23. 30	55. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 19								
h m	° ′ ″	h m		h m		h m	°	°
23. 43	21. 53. 30							
23. 46	55. 0							
23. 55	52. 55							
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 20	21. 56. 15	0. 0	·1033	0. 30	·01324	1. 40	37 ·5	37 ·5
1. 4	54. 20	2. 45	·1037	2. 30:	·01204	3. 40	42 ·0	42 ·5
	***	3. 53	·1032	4. 18	·00817	9. 40	43 ·0	43 ·0
1. 35	52. 25	5. 25	·1032		·00890	21. 40	34 ·5	35 ·5
2. 30	53. 0	5. 42	·1012	5. 3	·00862			
2. 40	55. 50	6. 0	·1019	5. 5	·00942			
2. 46	53. 15	6. 38	·1015	6. 10	·00959			
3. 35	52. 50	7. 29	·1029	9. 30	·01144			
3. 45	53. 45	9. 37	·1033	10. 33	·01248			
5. 16	51. 40	10. 30	·1027	14. 50	·01645			
5. 27	52. 35	10. 46	·1035	15. 3	·01598			
6. 40:	49. 25	11. 11	·1032	18. 0	·01568			
7. 0	52. 20	11. 40	·1033	20. 45	·01364			
7. 40	48. 50	14. 15	·1042		·01480			
9. 25:	48. 30	15. 44	·1044	23. 50	·01520			
9. 55	38. 20	16. 36	·1051					
10. 16	33. 30	17. 10	·1046					
10. 33	41. 0	17. 47	·1051					
10. 47	35. 30	18. 0	·1044					
11. 50	46. 0	18. 16	·1044					
	***	18. 36	·1051					
13. 22	46. 55	19. 31	·1044					
	***	20. 40	·1052					
14. 19	48. 35	20. 47	·1047					
14. 43	47. 25	21. 28	·1045					
	***	22. 16	·1016					
15. 17	50. 30	22. 43	·1027					
	***	23. 5	·1030					
16. 25	47. 0							
16. 36	48. 30							
16. 55	46. 0							
17. 20	49. 30							
17. 40	47. 20							
	***							
18. 30	48. 0							
18. 44	46. 40							
19. 0	48. 35							
	***							
20. 51	49. 0							
21. 9	52. 25							
	***							
22. 28	51. 30							
22. 35	53. 30							
23. 32	52. 30							
23. 51	53. 0							
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 5	21. 55. 0	0. 0	·1028	0. 0	·01318	1. 40	40 ·0	40 ·0
0. 32	54. 30	0. 41	·1016	1. 45:	·01422	3. 40	43 ·3	43 ·5
1. 5:	52. 0	1. 30	·1025	4. 44	·00970	9. 40	42 ·0	43 ·0
2. 7	54. 30	2. 9	·1007	6. 20:	·00784	21. 40	36 ·0	37 ·0
	***	2. 22	·1021	8. 32	·00905			
3. 24	52. 0	2. 35	·1026	8. 40	·00877			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 21		Feb. 21		Feb. 21		h m	°	°
h m	° ′ ″	h m		h m				
3. 35	21. 53. 0	3. 15	·1023	11. 30	·00947			
6. 11	49. 35	4. 37	·1028	13. 25	·00988			
6. 30	50. 30	5. 15	·1023	14. 15	·01038			
6. 45	49. 30	5. 45	·1020	14. 40	·01030			
		6. 0	·1025	18. 20	·01422			
8. 0	50. 35			20. 17	·01610			
8. 25	46. 30	6. 42	·1021	23. 45	·01584			
8. 30	48. 0							
		7. 30	·1026					
8. 45	41. 15	8. 33	·1008					
		8. 46	·1018					
9. 15	50. 0	9. 16	·1011					
		9. 35	·1015					
9. 30	46. 30	9. 46	·1012					
9. 45	49. 0	10. 0	·1024					
9. 59	47. 15	10. 15	·1014					
10. 7	48. 20	10. 32	·1021					
10. 31	44. 45	11. 25	·1004					
11. 6	49. 15	11. 43	·1014					
11. 35	49. 0	12. 0	·1011					
		12. 20	·1028					
12. 27:	44. 30	12. 30	·1024					
		13. 3	·1023					
12. 51	48. 0	13. 15	·1028					
13. 30	41. 0	13. 23	·1023					
		13. 31	·1030					
13. 53	44. 3	13. 45	·1026					
14. 5	51. 35	14. 21	·1031					
		14. 15	·1022					
14. 30	54. 0	14. 25	·1024					
14. 54	51. 45	14. 36	·1014					
		15. 20	·1028					
15. 25	51. 35	16. 16	·1032					
15. 59	44. 30	17. 21	·1022					
16. 16	44. 0	17. 58	·1029					
		19. 16	·1030					
18. 0	48. 25							
		20. 21	·1020					
19. 52	47. 25							
20. 23	52. 0	21. 17	·1027					
		22. 40	·1022					
20. 59	53. 0	23. 39	·1001					
21. 37	49. 35	23. 58	·1004					
21. 58	50. 10							
22. 30	49. 5							
23. 45	54. 20							
23. 58	54. 10							
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 0	21. 52. 30	0. 29	·1000	1. 6	·01419	1. 40	42 ·0	42 ·0
0. 15	51. 40	1. 45	·1006	1. 30	·01409	3. 40	47 ·0	47 ·5
0. 31	52. 0	3. 15	·1004	4. 4	·00940	9. 40	47 ·0	47 ·5
1. 0	53. 10	4. 10	·1000	4. 35	·00947	21. 40	37 ·5	39 ·0
1. 35:	51. 20			5. 10	·00929			
2. 15	53. 15	7. 20	·1006	7. 4	·01023			
2. 26	51. 0	7. 52	·1008	10. 20	·01090			
2. 45	52. 0	8. 7	·1004	10. 46	·01115			
4. 30	50. 30	10. 15	·1011	14. 32	·01442			
5. 5	51. 10	14. 30	·1020	16. 18	·01632			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 22		Feb. 22		Feb. 22		h m	°	°
h m	° ′ ″	h m		h m				
5. 59	21. 49. 30	16. 0	·1030	16. 28	·01570			
6. 6	49. 35	16. 30	·1043	18. 42	·01568			
	(†)	17. 0	·1034	20. 18	·01598			
12. 32	45. 25	17. 25	·1031	22. 11	·01578			
		17. 52	·1041	23. 0	·01586			
13. 1	45. 0	18. 22	·1034	23. 59	·01579			
		19. 0:	·1028					
14. 23	48. 10	20. 0	·1031					
		21. 25	·1033					
14. 57	45. 30	21. 32	·1026					
15. 16	48. 10	22. 10	·1021					
15. 38	46. 55	22. 18	·1024					
15. 59	49. 0	22. 33	·1015					
16. 45	48. 25	22. 47	·1022					
17. 20	49. 0	23. 5	·1016					
18. 7	49. 50	23. 59	·1020					
18. 39:	45. 0							
18. 57	46. 45							
19. 11	45. 35							
19. 31	48. 30							
20. 15	47. 30							
21. 0	48. 30							
21. 31	47. 10							
21. 54	49. 40							
23. 1	47. 40							
23. 53	48. 10							
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
1. 40	21. 53. 13*	0. 17	·1014	0. 26	·01520	1. 40	44 ·0	45 ·0
3. 40	53. 4*	0. 57	·1010	1. 20	·01494	3. 40	45 ·0	45 ·0
9. 40	54. 20*	1. 15	·1003	2. 58	·01321	9. 40	46 ·0	47 ·0
	(†)	1. 45	·0998	4. 34	·01168	21. 40	42 ·0	43 ·5
12. 0	53. 30	2. 30	·1006	6. 10	·00941			
13. 0	53. 0			8. 41:	·00769			
13. 22	56. 45	3. 45	·1012	10. 30	·00768			
14. 25:	52. 10			10. 48	·00761			
16. 1	52. 5	4. 15	·1007	12. 56	·00811			
17. 30	53. 15	4. 28	·1010	13. 30	·00800			
18. 0	52. 55	5. 50	·1006	18. 11	·01041			
18. 24	52. 0	6. 25	·1002	23. 35	·01287			
19. 25	53. 10	6. 37	·0996	23. 59	·01280			
19. 55	52. 30	7. 15	·1005					
20. 20	53. 30	7. 30	·1010					
		8. 30	·1011					
21. 54:	50. 35	9. 45	·1011					
23. 36	57. 25	10. 15:	·1048					
23. 59	56. 50	10. 55	·1012					
		11. 15	·1018					
		11. 40	·1000					
		11. 47	·1006					
		13. 0	·1016					
		13. 8	·1027					
		13. 45	·1015					
		15. 16	·1018					
		16. 15	·1016					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Feb. 23 h m		°		h m	°	°
		17. 15	·1021					
		19. 0	·1023					
		21. 30	·1019					
		23. 15	·1011					
		23. 45	·1010					
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 0	21. 56. 50	0. 16	·1011	0. 20	·01280	1. 40		
1. 15	54. 50	1. 45	·1008	2. 5:	·01111	3. 40		
2. 54	54. 5	2. 44	·1003	3. 23	·01043	9. 40	47 ·0 48 ·5	
3. 5	56. 0	3. 8	·1000	3. 30	·01051	23. 4	50 ·0 50 ·5	
5. 15	52. 0		***	3. 45	·00960		42 ·5 40 ·5	
5. 33	54. 50	5. 0	·0996	4. 15	·00968		45 ·5 46 ·0	
5. 50	53. 0	6. 37	·0992	5. 16	·00870			
6. 8	54. 20	7. 15	·0993	7. 4	·00988			
6. 30	53. 15	7. 47	·0989	7. 56	·00961			
7. 0	54. 20	8. 0	·0996	9. 5	·00941			
7. 49	51. 0	8. 30	·0992	10. 50	·01011			
8. 4	52. 0	9. 0	·1004	11. 28	·01079			
	***	9. 22	·0998	13. 21	·01245			
8. 30	48. 15	10. 0	·0988	14. 4	·01328			
9. 0	53. 15	10. 30	·1005	15. 50	·01448			
9. 19	46. 20	10. 45	·0996	16. 52	·01400			
9. 57	43. 0	11. 30	·1009	20. 57	·01159			
10. 30	55. 0	12. 15	·1004	23. 20	·00921			
	***	13. 0	·1010					
10. 46	54. 30	14. 15	·1008					
11. 2	48. 20	14. 45	·1014					
	***		***					
11. 46	48. 0	15. 55	·1016					
12. 0	50. 0	16. 15	·1008					
12. 52	50. 0	16. 43	·1009					
13. 8	45. 30	16. 55	·1004					
13. 48	54. 0	17. 15	·1013					
	***	18. 0	·1018					
14. 31	53. 0	18. 45	·1022					
14. 40	54. 0	19. 47	·1019					
15. 14	49. 0	21. 0	·1018					
15. 20	51. 0	22. 0	·1010					
	***	22. 45	·1008					
15. 50	50. 30	23. 0	·1010					
16. 13:	48. 0							
16. 52	56. 0							
17. 20	54. 0							
17. 55	54. 55							
21. 25	52. 30							
22. 35	53. 35							
23. 10	55. 35							
23. 30	52. 30							
	***							
23. 59	55. 0							
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 0	21. 55. 55	0. 30	·1008	0. 0	·00905	9. 27	50 ·0 50 ·0	
0. 31:	54. 40		***	1. 46	·00798	21. 40	48 ·0 49 ·5	
1. 0	56. 5	2. 45	·1006		·00830			
	***	3. 0	·1002	5. 26	·00862			
2. 15	56. 35	3. 30	·1005	8. 0	·00889			
2. 35	54. 40	4. 10	·1003	13. 32	·00831			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 25		Feb. 25		Feb. 25				
h m	° ′ ″	h m		°		h m	°	°
2. 59	21. 53. 0	4. 30	·1006	17. 10	·00912			
3. 24	54. 5	6. 55	·1008	21. 30	·01154			
4. 15	52. 30	7. 45	·1010	22. 9	·01163			
5. 37	51. 20	8. 0	·1012	22. 13	·01098			
6. 15	51. 55	9. 30	·1010	23. 59	·01121			
7. 0	51. 0	10. 0	·1012					
11. 15	51. 5	12. 0	·1009					
	***	13. 15	·1013					
12. 10	50. 0	14. 0	·1012					
	***	15. 8	·1010					
13. 53	51. 0	16. 2	·1012					
14. 0	51. 10	21. 45	·1012					
14. 31	50. 0		***					
15. 4	52. 0	22. 35	·1001					
15. 15	51. 30		***					
15. 30	50. 0	23. 59	·1000					
	***							
16. 13	49. 30							
20. 39	49. 10							
20. 59	50. 0							
21. 25	48. 10							
	***							
22. 50	49. 30							
	***							
23. 59	52. 0							
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 0	21. 52. 0	0. 0	·1000	0. 33	·01091	1. 40	50 ·0 50 ·5	
0. 45	52. 0		***	1. 50	·01063	3. 40	51 ·0 51 ·5	
1. 29	51. 10	1. 50	·1004	5. 1	·00844	9. 40	50 ·5 50 ·5	
2. 21	51. 30		***		·00940	21. 40	44 ·5 45 ·3	
3. 8	49. 30	4. 0	·1000	8. 46	·00888			
3. 36	53. 30	4. 6	·1002	10. 26	·00968			
4. 11	49. 25	4. 32	·0996	11. 10	·00986			
4. 43:	51. 0	5. 45	·1006	14. 40	·01244			
5. 8	48. 55	6. 17	·1002	17. 29	·01454			
5. 44	50. 45	7. 0	·1009	17. 35	·01362			
6. 51	48. 0	7. 15	·1006	18. 36	·01400			
7. 24	49. 30	8. 30	·1003	21. 0	·01402			
	***	8. 37	·1001	23. 59	·01358			
8. 15	49. 30	8. 50	·1006					
8. 23	51. 0	9. 15	·1003					
8. 44	49. 0	10. 0	·1010					
9. 15:	50. 20	10. 30	·1017					
10. 0	48. 5	10. 52	·1017					
10. 26	51. 55	11. 8	·1005					
10. 48	50. 15	11. 30	·1011					
10. 56	50. 35	13. 23	·1014					
11. 6	48. 30	14. 0	·1012					
12. 0	50. 0	16. 27	·1015					
13. 59	50. 10	17. 30	·1021					
14. 46	51. 15	18. 0	·1023					
16. 46	49. 45	20. 0	·1021					
17. 2	50. 35	21. 0	·1018					
18. 6	49. 0	21. 17	·1020					
18. 45	50. 0	22. 10	·1010					
	***	23. 59	·1015					
20. 6	49. 15							
20. 45	50. 15							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (+) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. O. H. F. Magnet.	Readings of Thermometers. O. V. F. Magnet.
Feb. 26								
h m	° ′ ″	h m		h m		h m	°	°
21. 45	21. 49. 35							
22. 0	51. 20							
23. 59	53. 35							
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
0. 0	21. 53. 35	0. 45	·1012	0. 14	·01340	1. 40	47 ·0	48 ·0
1. 10	55. 0		***	2. 25	·01340	3. 40	47 ·0	49 ·0
1. 30	57. 0	1. 20	·1010	7. 11	·01048	9. 40	47 ·0	47 ·5
1. 41	56. 0		***	8. 50	·00960	21. 40	45 ·0	45 ·5
	***	1. 31	·1000	10. 45	·00979			
2. 1	56. 55		***	13. 49	·01042			
	***	2. 10	·1003	18. 16	·01152			
3. 19	52. 35			18. 24	·01104			
	***	3. 0	·1010	20. 0	·01100			
5. 36	50. 35		***	22. 10	·01060			
6. 20	50. 0	4. 0	·1007	23. 59	·00965			
	***		***					
9. 45	50. 0	4. 28	·1013					
	***	5. 0	·1010					
11. 46	49. 20		***					
	***	6. 2	·1013					
12. 41	51. 0	6. 30	·1010					
	***	8. 15	·1016					
15. 0	50. 30	9. 0	·1018					
15. 13	49. 5	10. 44	·1010					
	***	11. 8	·1020					
15. 51	49. 0	11. 30	·1016					
16. 19	50. 5	12. 30	·1020					
16. 31	49. 0		***					
16. 56	49. 35	15. 10	·1028					
17. 10	46. 30	15. 25	·1023					
17. 15	49. 0		***					
	***	16. 57	·1032					
18. 15	51. 30		***					
18. 33	51. 30	17. 30	·1029					
19. 9	21. 58. 40	18. 5	·1022					
	***	18. 45	·1014					
19. 45	22. 0. 35		***					
19. 59	21. 58. 30	19. 15	·1020					
20. 10	58. 0	20. 0	·1028					
20. 44	51. 30	20. 30	·1025					
20. 47	53. 20	21. 15	·1022					
21. 4	50. 0	22. 45	1016					
21. 35	46. 30	22. 55	·1000					
21. 45	48. 10	23. 55	·0994					
22. 7	47. 25							
	***							
23. 14	52. 55							
23. 59	51. 20							
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 15	21. 56. 25	0. 15	·1004	0. 5	·00982	1. 40	50 ·0	50 ·5
0. 39	57. 30	0. 45	·1000	1. 26	·00858	3. 40	52 ·0	52 ·5
0. 50	21. 57. 10	1. 0	·0998		·00930	9. 40	53 ·5	53 ·5
1. 0	22. 0. 5	1. 20	·0993	2. 15	·00949	21. 40	47 ·0	47 ·5
1. 8	21. 57. 30	2. 17	·1000		***			
1. 10	53. 15	3. 0	·1003	5. 30	·01060			
1. 38	51. 25	3. 30	·0989	19. 25	·00870			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 28		Feb. 28		Feb. 28				
h m	° ′ ″	h m		h m		h m	°	°
2. 30	21. 50. 55	4. 0	·0989	0. 4	·00892			
	***	4. 25	·0996	11. 0	·00899			
3. 3	55. 55	4. 48	·0993	14. 38	·01170			
		5. 15	·0980	20. 28	·01131			
3. 40	59. 0	5. 30	·1011	21. 42	·01789			
	***	6. 3	·1005	22. 19	·01780			
4. 15	52. 35	7. 35	·0996	22. 58	·01800			
	***	8. 30	·1009	23. 44	·01781			
4. 31	53. 30	9. 28	·1005					
4. 43	52. 10	10. 27	·1010					
4. 49	53. 0	11. 0	·1004					
5. 21	35. 20	11. 45	·1026					
6. 15	49. 45	12. 15	·1013					
7. 15	50. 35	12. 40	·1018					
7. 48	43. 35	13. 20	·1008					
		15. 0	·1012					
8. 18	44. 15	19. 15	·1019					
8. 44	48. 0	21. 0	·1003					
8. 59	48. 30	22. 0	·1004					
9. 21	46. 0	22. 28	·0974					
9. 50	48. 0	23. 0	·0992					
	***	23. 59	·0999					
10. 23	46. 10							
	***							
11. 32	48. 30							
11. 46	51. 10							
12. 15	47. 30							
12. 48	49. 25							
13. 0	48. 0							
	***							
13. 59	50. 0							
14. 15	48. 55							
	***							
18. 21	47. 25							
	***							
19. 30	48. 0							
	***							
20. 45	54. 0							
21. 15	51. 5							
	***							
21. 55	51. 0							
	***							
22. 21	55. 0							
22. 31	50. 5							
	***							
22. 53	52. 10							
23. 0	50. 30							
23. 20	54. 10							
23. 35	51. 15							
23. 57	51. 35							
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 0	21. 51. 35	0. 0	·1002	0. 7	·01675	1. 40	52 ·5	53 ·5
0. 59	58. 35	1. 0	·1005	1. 44	·01579	3. 40	53 ·5	53 ·5
1. 19	56. 55	1. 25	·1002	3. 15	·01380	9. 40	54 ·0	54 ·0
	***	1. 46	·1006	5. 26	·00988	21. 40	48 ·0	49 ·0
1. 44	59. 0	2. 10	·0996		·01040			
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Mar. 1		Mar. 1		Mar. 1				
h m	° ′ ″	h m		h m				
2. 6	21. 51. 0	3. 15	·1005	7. 16	·01007			
2. 15	51. 35	5. 15	·1005	8. 47	·00920			
4. 21	51. 0	5. 30	·1004	10. 9	·00941			
		5. 45	·1007	13. 16	·01185			
6. 55	48. 0	6. 15	·0998	14. 25	·01281			
7. 14	49. 0	6. 35	·1005	15. 52	·01439			
7. 30	43. 30	6. 45	·0996	19. 11	·01784			
8. 5	50. 0	7. 15	·1004	19. 15	·01760			
8. 30	47. 10	7. 30	·0996					
9. 0	49. 25	7. 45	·1008	21. 44	·01648			
	***	8. 30	·1004	22. 30	·01615			
10. 0	47. 0	8. 45	·1000	22. 54	·01572			
10. 30	49. 55	9. 41	·1006	23. 4	·01537			
	***	12. 15	·1013	23. 59	·01440			
11. 33	49. 30							
		13. 30:	·1023					
12. 51	52. 30	14. 15	·1013					
13. 5	51. 30	14. 36	·1012					
13. 26	53. 40	15. 0:	·1008					
13. 37	51. 25	15. 26	·1017					
	***	16. 0	·1014					
14. 36	49. 5	17. 15	·1014					
15. 1	51. 0							
	***	18. 30	·1025					
16. 18	50. 40	19. 22	·1025					
		20. 20	·1019					
16. 54	48. 55	21. 0	·1018					
	***							
17. 15	50. 30	22. 30	·1008					
17. 59	50. 40	23. 25	·0983					
19. 15	49. 35	23. 59	·0996					
19. 46	50. 30							
20. 1	53. 0							
20. 15	52. 0							
20. 21	53. 0							
	***							
21. 0	50. 15							
22. 15	49. 10							
23. 7	52. 20							
23. 30	51. 35							
23. 59	54. 0							
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
1. 40	21. 54. 42*	1. 40	·1005*	0. 21	·01412	1. 40	53 ·0	53 ·0
3. 40	51. 22*	3. 40	·1000*	2. 33	·01162	3. 40	55 ·0	55 ·0
9. 40	44. 10*	9. 40	·1010*	4. 2	·01008	9. 40	54 ·0	54 ·0
21. 40	48. 18*	21. 40	·1002*	7. 45	·00965	21. 40	47 ·0	47 ·0
				8. 47	·00947			
				10. 20	·00940			
				10. 45	·00920			
				13. 57	·01162			
				14. 31	·01220			
				18. 13	·00748			
				18. 15	·00719			
				19. 31	·01718			
					·01600			
				20. 49	·01660			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
				Mar. 2				
				23. 1	·01678			
				23. 59	·01625			
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 34	21. 52. 35	0. 30	·1000	1. 32	·01502	1. 40	51 ·0	51 ·0
	***	1. 50	·1003	4. 15	·01241	3. 40	53 ·0	53 ·0
1. 14	54. 0	2. 15	·1006	7. 0:	·00850	9. 40	52 ·5	53 ·0
2. 55	53. 0	3. 46	·1004	7. 15	·00872	23. 3	44 ·0	44 ·0
3. 25	51. 10	4. 10	·1012	10. 8	·00855			
4. 15	51. 0	4. 30	·1006	11. 7	·00894			
5. 45	48. 5	5. 0	·1008	15. 3	·01502			
	***	5. 45	·1000	17. 46	·01688			
6. 41	47. 15	7. 0	·1006		·01630			
	***	7. 30	·1010	20. 15	·01679			
11. 22	47. 0	9. 36	·1009	21. 52	·01658			
11. 45	48. 0	10. 30	·1014	23. 26	·01690			
	***	12. 30	·1015					
13. 23	49. 30	13. 35	·1020					
13. 55	47. 0	14. 20	·1017					
14. 16	50. 30							
	***	15. 50	·1018					
15. 14	47. 30	16. 20	·1022					
15. 44	50. 25	17. 10	·1020					
	***	19. 0	·1022					
16. 36	47. 30	21. 0	·1020					
	***	23. 17	·1008					
18. 0	49. 30							
	***							
21. 0	48. 0							
	***							
23. 25	50. 30							
	***							
23. 59	53. 30							
	***							
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 34	21. 55. 55	0. 0	·1010	0. 0	·01535	11. 6	49 ·0	50 ·0
	***	1. 10	·1008	3. 16:	·01354	21. 40	45 ·0	45 ·0
1. 17	56. 35	1. 28	·1006	6. 26	·00863			
2. 0:	56. 10	2. 15	·1012	6. 30	·00901			
3. 10:	53. 55	2. 55	·1001	9. 41	·00828			
4. 0	53. 0	4. 5	·1018	14. 30	·00911			
	***	4. 45	·1012	21. 46	·01540			
6. 10	48. 0	5. 0	·1013		·01280			
	***	5. 30	·1014	23. 59	·01359			
7. 25	48. 0	6. 15	·1011					
7. 45	48. 45	6. 30	·1014					
	***	7. 30	·1013					
8. 16	42. 0	7. 40	·1006					
8. 44	48. 55	8. 15	·1016					
9. 5	48. 15	8. 30	·1023					
10. 14	46. 25	9. 0	·1008					
10. 47	45. 5	9. 55	·1010					
11. 10	46. 45	10. 30	·1008					
	***	11. 0	·1014					
15. 21	48. 35	16. 0	·1024					
	***	16. 46	·1028					
		17. 30	·1025					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

March 2. The Photographic Trace for the Horizontal Force Magnet was too faint for use. There was no discoverable trace for the Declination Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 4		Mar. 4						
h m	° ′ ″	h m		h m		h m	°	°
19. 30	21 48. 30	19. 15	·1026					
	***	20. 30	·1024					
20. 59	46. 0	21. 0	·1021					
21. 22	49. 5	21. 45	·1018					
22. 16	47. 20	22. 30	·1010					
	***		(†)					
23. 50	52. 20							
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 0	21. 52. 15	0. 30	·1005	0. 30	·01340	1. 40	48 ·0	49 ·0
0. 59	53. 40	1. 15	·1006	1. 45	·01268	3. 40	51 ·5	52 ·0
1. 34	55. 5	1. 30	·1008	3. 33	·00979	9. 40	52 ·5	52 ·5
2. 37	53. 15	3. 0	·1009	4. 32	·00972	21. 40	45 ·0	46 ·5
2. 53	54. 10	3. 45	·1008	7. 29	·00960			
4. 30	51. 30	5. 0	·1010	8. 16	·00920			
	***	7. 0	·1011	10. 55	·00959			
6. 3	50. 35	8. 30	·1013	13. 34	·01128			
7. 15	48. 30	9. 0	·1011	19. 24	·01740			
	***	12. 0	·1008	19. 28	·01706			
9. 15	48. 0	12. 15	·1012	20. 46	·01704			
	***	12. 36	·1020	22. 57	·01682			
9. 45	44. 20	12. 50	·1014	23. 59	·01700			
10. 25	46. 10	14. 40	·1012					
	***	15. 10	·1014					
11. 45	46. 5	15. 40	·1021					
12. 9:	47. 0	15. 48	·1016					
12. 32	44. 5	16. 45	·1018					
13. 3	47. 55	19. 0	·1026					
	***	20. 30	·1020					
14. 20	47. 30	21. 15	·1018					
15. 15	50. 0	23. 30	·1002					
	***	23. 59	·0997					
16. 15	46. 15							
	***							
16. 57	47. 40							
18. 36	46. 35							
19. 38	45. 0							
	***							
21. 7	45. 10							
21. 15	48. 10							
22. 0	48. 0							
	***							
23. 5	50. 0							
23. 41	53. 0							
23. 59	53. 20							
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 0	21. 53. 25	0. 55	·1008	1. 5	·01680	1. 40	48 ·0	49 ·0
0. 46	52. 30	2. 55	·1014	3. 11	·01370	3. 40	52 ·0	52 ·5
1. 14:	53. 20	4. 0:	·1006	4. 47	·01018	9. 40	53 ·0	53 ·5
1. 47	51. 25	4. 50	·1013	4. 51	·01040	21. 40	44 ·0	44 ·5
	***	7. 47	·1008	7. 6	·01029			
2. 31	51. 55	8. 0	·1012		·01120			
2. 56	52. 55		***	7. 32	·01091			
3. 15	52. 0	9. 30	·1005	8. 21	·00900			
3. 31	52. 35	11. 20	·1013	12. 11	·01281			
4. 40	50. 0	13. 0	·1012	16. 33	·01759			
5. 25	50. 15	13. 30	·1014	16. 41	·01720			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 6		Mar. 6		Mar. 6		Mar. 7		
h m	° ′ ″	h m		h m		h m	°	°
5. 45	21. 51. 0	14. 0	·1012	23. 16	·01704	1. 40	47 ·0	47 ·0
6. 45	48. 10	15. 30	·1020	23. 59	·01726	3. 40	50 ·0	50 ·0
7. 25	44. 15	16. 0	·1024			9. 40	51 ·0	51 ·0
8. 39	48. 30	17. 0	·1028			21. 40	41 ·5	42 ·5
8. 49	46. 30	18. 0	·1030					
9. 48	47. 25	18. 30	·1032					
	***	19. 0	·1037					
10. 21	45. 5	19. 32	·1032					
	***	20. 0	·1036					
11. 15	46. 30		***					
	***	21. 45	·1022					
12. 14	46. 10	22. 30	·1019					
14. 47	47. 30	23. 0	·1010					
	***	23. 15	·1004					
17 14	47. 25	23. 59	·1001					
17. 25	45. 40							
20. 36	45. 55							
20. 44	49. 0							
20. 53	46. 5							
	***							
21. 31	48. 0							
21. 45	44. 10							
21. 49	47. 30							
	***							
23. 3	48. 30							
23. 59:	53. 50							
Mar. 7		Mar. 7		Mar. 7				
0. 16	21. 51. 35	0. 19	·1010	0. 16	·01684			
3. 51	51. 0	3. 0	·1015	1. 30	·01663			
4. 48	50. 0	6. 0	·1016	3. 50	·01368			
6. 6	50. 0	7. 0:	·1013	6. 4	·00900			
	***	9. 0	·1020	6. 9	·00920			
9. 8	46. 0	11. 33	·1021	7. 20	·00944			
9. 45	48. 0	12. 0	·1026	9. 46	·00848			
	***	12. 15	·1022	11. 4	·00886			
11. 30	46. 0	13. 0	·1020	14. 6	·01190			
	***	16. 20	·1025	17. 20	·01698			
12. 5	48. 35	18. 45	·1034		·01638			
12. 25	45. 45	19. 30	·1036	23. 45	·01657			
12. 31	47. 15	20. 0	·1032					
	***	21. 23	·1026					
13. 0	46. 0	22. 0	·1020					
	***	22. 55	·1021					
13. 15	47. 25	23. 40	·1018					
	***							
14. 35	45. 25							
	***							
15. 30	47. 45							
	***							
17. 16	45. 0							
	***							
18. 51	46. 20							
	***							
20. 44	46. 0							
20. 55	48. 10							
21. 2	46. 35							
21. 14	48. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7								
h m	° ′ ″	h m		h m		h m	°	°
22. 27	21. 47. 15							
23. 30	50. 0							
23. 51	49. 30							
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 0	21. 50. 25	0. 0	·1020	0. 0	·01631	1. 40	46 ·0	47 ·0
0. 54	53. 30	0. 30	·1016	0. 58	·01620	3. 40	49 ·0	50 ·5
1. 55	54. 30	1. 45	·1013	2. 1:	·01518	9. 40	51 ·0	52 ·0
	***	2. 0	·1010	4. 57	·00919	21. 40	40 ·0	40 ·5
2. 53	52. 55	2. 45	·1016	4. 59	·00963			
3. 0	53. 30	3. 15	·1017	7. 25	·00926			
	***	4. 35	·1015	8. 12	·00888			
5. 23	51. 0	5. 20	·1018	9. 11	{·00825			
	***	5. 45	·1022		{·00980			
6. 53	50. 35	6. 15	·1020	10. 39	·01031			
7. 5	49. 10	6. 30	·1018	13. 20	·01289			
	***	6. 45	·1016	16. 7	{·01689			
7. 36:	48. 30	7. 30	·1014		{·01680			
	***	8. 0	·1018	22. 29	·01612			
8. 16	42. 0	8. 30	·1021	23. 50	·01598			
	***	9. 45	·1020					
8. 51	47. 25	11. 0	·1022					
	***	11. 30	·1024					
9. 49	48. 0	13. 15	·1030					
	***	13. 30	·1032					
10. 15	46. 10	13. 50	·1030					
10. 30	47. 35	14. 15	·1038					
	***	14. 45	·1037					
13. 23	46. 0	15. 15	·1034					
13. 31	47. 35	16. 0	·1038					
13. 53	45. 0	17. 32	·1040					
	***	18. 45	·1042					
14. 15	45. 40	19. 30	·1044					
	***	20. 0	·1048					
15. 8	43. 30	20. 30	·1042					
	***	21. 0	·1038					
16. 2	44. 55	22. 0	·1033					
	***	23. 30	·1022					
16. 25	47. 35	23. 36	·1026					
	***							
18. 0	44. 0							
	***							
18. 35	46. 30							
	***							
19. 17	46. 30							
	***							
19. 52	43. 0							
	***							
21. 55	48. 10							
22. 15	47. 0							
23. 14	44. 0							
23. 39	51. 0							
23. 59	51. 15							
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 0	21. 51. 15	0. 0	·1010	0. 0	·01597	1. 40	44 ·0	45 ·0
0. 10	50. 0	1. 15	·1018	1. 12	·01548	3. 40	48 ·5	48 ·5
	***	1. 30	·1012	3. 15	·01242	9. 40	49 ·0	49 ·5

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 25	21. 54. 0	1. 45	·1014	5. 17	·00884	21. 40	42 ·0	43 ·0
0. 37	52. 25	1. 50	·1010	5. 25	·00908			
	***	2. 39	·1017	6. 43	·00965			
1. 0	53. 30	2. 45	·1012		***			
1. 21	55. 35	3. 10	·1007	11. 0	·00775			
	***	3. 30	·1012	14. 0	·00958			
1. 51	53. 40	3. 48	·1016	18. 30	·01314			
	***	4. 46	·1006	21. 12	·01534			
2. 46	57. 30	5. 10	·1009	23. 0	{·01658			
2. 55	59. 10	5. 46	·0998		{·01575			
3. 6	57. 35	6. 10	·1012	23. 45	·01631			
	***	6. 29	·1001					
3. 19	21. 58. 0	6. 50	·1030					
3. 31	22. 1. 20	7. 16	·1022					
3. 45	21. 59. 35	7. 30	·1012					
	***	7. 42	·1006					
4. 37	22. 1. 15	7. 55	·1018					
5. 32	22. 0. 30	8. 10	·1011					
5. 55	21. 55. 30	9. 0	·1017					
6. 15	55. 10	9. 20	·1005					
6. 45	54. 15	9. 35	·1010					
7. 0	47. 0	10. 0	·1018					
7. 14	45. 0	10. 10	·1044					
7. 29	54. 0	10. 32	·1024					
7. 45	49. 30	10. 40	·1028					
7. 59	51. 0	11. 0	·1014					
8. 16	48. 5	11. 30	·1000					
	***	11. 45	·1012					
9. 11	46. 25	13. 5	·1023					
9. 40	43. 0	15. 54:	·1013					
10. 0	29. 0	17. 15:	·1029					
	***	18. 30	·1017					
10. 38	37. 0	19. 30	·1024					
	***	20. 0	·1029					
11. 16	36. 35	21. 30	·1022					
11. 46	42. 0	22. 20	·1013					
	***	22. 55	·1014					
12. 27	44. 0	23. 59	·1028					
	***							
12. 56	42. 30							
	***							
13. 15	43. 20							
	***							
13. 36	40. 40							
	***							
14. 37	49. 35							
14. 51	49. 0							
	***							
15. 46	49. 5							
16. 4	52. 35							
	***							
18. 23	48. 35							
19. 0	47. 15							
19. 44	46. 55							
	***							
20. 50	47. 0							
	***							
21. 15	48. 50							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Mar. 9								
h m	° ′ ″	h m		h m		h m	°	°
22. 20	21. 47. 0							
	***							
22. 48	49. 35							
23. 15	49. 25							
23. 59	50. 30							
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
0. 0	21. 50. 30	0. 18	·1012	0. 16	·01598	1. 40	44 ·0	45 ·0
0. 30	50. 0	1. 45	·1015	3. 30	·01450	3. 40	47 ·5	46 ·0
1. 45	53. 0	2. 45	·1020	6. 35	·01230	9. 40	45 ·0	45 ·0
4. 0	43. 15	3. 45	·1025	8. 0	·01198	23. 35	38 ·5	39 ·0
4. 13	52. 10	4. 2	·1032	9. 55	·01237			
5. 5	51. 20	4. 14	·1025	10. 17	·01233			
6. 15	50. 0	4. 52	·1032	14. 12	·01620			
6. 35	46. 25	5. 5	·1024		·01570			
7. 6	46. 0	5. 30	·1028	18. 0	·01572			
	***	6. 23	·1033	22. 30	·01536			
7. 55	48. 0	6. 30	·1028	23. 59	·01558			
8. 5	46. 5	7. 0	·1036					
	***	7. 40	·1036					
8. 25	47. 20	8. 0	·1026					
	***	9. 0	·1024					
9. 15	46. 0	9. 15	·1026					
9. 44	37. 30	9. 31	·1024					
	***	9. 50	·1052					
10. 15	46. 0	10. 45	·1038					
10. 21	45. 10	11. 30	·1032					
10. 35	47. 30	14. 30	·1034					
	***	16. 30	·1044					
11. 26	48. 5	20. 30	·1040					
	***	21. 0	·1038					
12. 0	46. 0	22. 16	·1032					
	***	23. 30	·1040					
13. 0	47. 30	23. 59	·1031					
	***							
17. 0	47. 30							
18. 0	45. 50							
18. 15	48. 5							
18. 30	46. 30							
18. 52	46. 25							
19. 15	48. 35							
19. 55	50. 0							
	***							
21. 15	48. 0							
22. 20	48. 0							
23. 20	51. 0							
23. 30	50. 30							
23. 40	52. 25							
23. 59	52. 35							
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 0	21. 52. 30	0. 20	·1030	0. 15	·01560	10. 30	41 ·0	42 ·0
	***	4. 30	·1037	3. 0	·01470	21. 40	40 ·0	41 ·0
0. 25	52. 30	5. 0	·1034	4. 32	·01367			
0. 51	53. 55	5. 30	·1038	7. 15	·01240			
1. 8	53. 25	6. 0	·1034	9. 44	·01242			
1. 28	54. 30	7. 0	·1038	12. 0	·01299			
3. 28	53. 30	7. 15	·1034	16. 32	·01400			
	***	7. 42	·1042		·01280			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Mar. 11		Mar. 11		Mar. 11				
h m	° ′ ″	h m		h m		h m	°	°
8. 53	21. 47. 20	8. 5	·1034	18. 45	·01287			
	***	8. 45	·1042	20. 46	·01223			
9. 38	47. 30	9. 8	·1036	23. 59	·00930			
10. 19	45. 35	10. 0	·1038					
	***	11. 0	·1040					
11. 48	47. 30	12. 30	·1038					
12. 22	46. 30	13. 30	·1040					
	***	17. 0	·1046					
14. 31	48. 0	18. 0	·1048					
	***	19. 30	·1046					
15. 32	46. 20	21. 0	·1044					
	***	22. 29	·1036					
16. 31	47. 30	23. 40	·1040					
	***	23. 50	·1036					
18. 15	45. 0	23. 59	·1040					
	***							
19. 14	48. 50							
19. 38	45. 0							
	***							
20. 15	49. 55							
	***							
21. 14	49. 25							
	***							
22. 15	50. 30							
22. 31	52. 55							
22. 53	52. 0							
23. 14	56. 0							
23. 19	53. 30							
23. 24	55. 5							
23. 53	54. 30							
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 0	21. 56. 0	0. 34	·1047	0. 32	·00838	1. 40	45 ·0	46 ·0
0. 5	55. 0	0. 45	·1040	1. 30	·00702	3. 40	48 ·0	48 ·5
0. 20	57. 50	1. 8	·1044	2. 45	·00837	9. 40	50 ·0	49 ·0
0. 30	57. 35	1. 13	·1036	4. 30	·00948	21. 40	44 ·5	45 ·5
	***	1. 20	·1043	7. 0	·00987			
0. 46	21. 56. 35	1. 47	·1030	7. 30	·00980			
1. 4	22. 0. 0	1. 53	·1032	9. 3	·00867			
1. 13	21. 59. 0	2. 27	·1038	9. 40	·00830			
1. 15	59. 55	2. 30	·1048	10. 15	·00840			
1. 29	21. 56. 35	2. 37	·1030	11. 0	·00708			
	***	2. 45	·1010	11. 16	·00792			
2. 30	22. 8. 0	3. 0	·1030	11. 58	·00676			
2. 41	21. 57. 30	3. 15	·1033					
2. 46	59. 25	3. 30	·1024	12. 36	·00734			
	***	3. 45	·1031	12. 48	·00734			
3. 26	21. 57. 0	4. 0	·1016	13. 0	·00750			
3. 45	22. 1. 20	4. 26	·1027	14. 5	·00734			
	***	4. 45	·1011	14. 31	·00808			
4. 2	21. 59. 0	5. 0	·1012	14. 44	·00768			
4. 15	22. 0. 50	5. 15	·1008	15. 0	·00858			
4. 21	21. 58. 20	5. 33	·1002	15. 15	·00855			
4. 30	50. 35	5. 45	·1000	16. 0	·00955			
	***	6. 0	·1010	16. 46	·01002			
4. 53	21. 59. 35	6. 30	·1014	18. 0	·01055			
5. 6	22. 1. 0	7. 0	·1010	19. 15	·01184			
6. 15	21. 50. 20	7. 30	·1008	21. 30	·01328			
	***	8. 0	·1016	23. 10	·01470			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12		Mar. 12				
h m	° ′ ″	h m		h m		h m	°	°
7. 20	21. 53. 30	8. 12	·1011	23. 59	·01424			
		8. 15	·1016					
7. 36	47. 0	8. 45	·0996					
		9. 0	·0998					
7. 55	45. 30	9. 10	·1016					
		9. 20	·1008					
8. 3	40. 0	9. 30	·0994					
		9. 42	·0986					
8. 15	48. 30	10. 20	·0989					
		10. 30	·1035					
8. 17	48. 30	11. 0	·0969					
		11. 30	·0986					
8. 30	51. 10	12. 0	·1001					
		12. 15	·0973					
8. 45	51. 0	12. 30	·0964					
		12. 45	·0967					
9. 8	42. 20	13. 0	·0955					
9. 20	45. 0	13. 8	·0964					
9. 27	42. 0	13. 30	·0994					
9. 45	44. 0	13. 45	·0990					
10. 5	38. 0	14. 15	·0982					
		14. 30	·0978					
10. 22	42. 15	14. 45	·0998					
10. 30	37. 20	15. 0	·0992					
		15. 15	·0998					
10. 54	39. 0	15. 30	·0992					
11. 45	13. 0	15. 45	·0986					
12. 0	22. 30	16. 30	·1003					
12. 25	12. 0	17. 0	·1012					
12. 55	26. 0	17. 30	·1018					
13. 4	24. 35	17. 50	·1030					
13. 19	27. 35	18. 30	·1014					
		18. 45	·1009					
13. 39	26. 25	19. 15	·1011					
		20. 0	·1006					
14. 25	30. 35	20. 45	·1010					
15. 17	41. 30	23. 59	·1004					
15. 31	41. 35							
16. 3	47. 0							
16. 30	48. 5							
16. 44	45. 0							
17. 0	45. 30							
17. 43	52. 35							
18. 55	48. 55							
20. 0	46. 25							
21. 8	47. 25							
21. 30	50. 30							
22. 3	49. 30							
22. 46	52. 20							
23. 59	52. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 52. 30	0. 0	·1004	0. 30	·01430	1. 40	50	50
0. 8	53. 0			3. 0	·01212	3. 40	50	50
0. 15	51. 40	0. 30	·1012	4. 59	·00946	9. 40	51	52
0. 21	54. 0	1. 0	·1002		·01020	21. 40	45	46
0. 45	53. 30	1. 30	·1006					
1. 55	54. 0	2. 30	·1010	10. 5	·00923			
2. 18	53. 0	3. 0	·1008	12. 35	·00961			
4. 7	51. 25	3. 15	·1008	14. 20	·01400			
5. 32	52. 30	5. 30	·1006	16. 0	·01157			
		6. 15	·1003	19. 0	·01454			
6. 0	49. 0	6. 30	·1023	21. 30	·01658			
6. 19	43. 0	6. 45	·1028	23. 59	·01770			
6. 30	43. 0	7. 0	·1002					
6. 36	46. 55	7. 5	·1002					
6. 51	48. 0	7. 20	·1021					
7. 14	37. 5	7. 30	·1012					
7. 21	41. 0	7. 41	·1020					
7. 31	38. 0	8. 0	·1006					
7. 50	42. 0	8. 7	·1010					
8. 2	41. 30	8. 30	·1001					
8. 14	46. 0	10. 30	·1007					
8. 25	44. 0	11. 30	·1014					
8. 36	44. 30	13. 30	·1012					
		15. 0	·1008					
9. 10	44. 0	16. 0	·1012					
9. 30	46. 0	17. 0	·1014					
9. 46	45. 0	17. 35	·1022					
9. 54	46. 10	18. 30	·1011					
10. 4	44. 55	19. 0	·1014					
		20. 0	·1018					
10. 30	46. 40	21. 30	·1017					
11. 0	45. 15	23. 0	·1012					
11. 16	46. 35	23. 59	·1016					
11. 36	45. 40							
11. 51	44. 35							
12. 4	41. 10							
12. 5	40. 0							
13. 15	44. 0							
13. 39	44. 35							
14. 2	40. 0							
14. 30:	45. 10							
15. 59	49. 0							
16. 26	47. 15							
16. 51	48. 30							
17. 59	49. 30							
18. 26	47. 55							
19. 12	47. 0							
20. 46	48. 0							
21. 20	52. 25							
22. 19	51. 10							
23. 44	54. 30							
23. 52	53. 40							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
h m	° ′ ″	h m		h m		h m	°	°
0. 8	21. 53. 20	0. 0	·1016	0. 15	·01768	1. 40	48 ·0	49 ·0
0. 55	54. 15	2. 30	·1019	3. 30	·01537	3. 40	50 ·0	50 ·5
3. 5	52. 0	4. 0	·1018	7. 59	·01099	9. 40	50 ·0	50 ·5
3. 31	50. 0	4. 45	·1013		·01245	21. 40	44 ·5	45 ·3
3. 44	50. 40	8. 30	·1016	9. 45	·01200			
4. 4	50. 15	10. 15	·1018	14. 15	·01378			
4. 18	49. 0	10. 30	·1036	18. 0	·01668			
4. 32	49. 35	10. 45	·1032	19. 58	·01798			
	***	12. 0	·1018		·01665			
7. 0	45. 0	14. 0	·1014	22. 15	·01720			
	***	16. 30	·1022	23. 45	·01738			
8. 24	44. 55	17. 0	·1020					
	***	18. 2	·1022					
8. 56	46. 0	18. 30	·1026					
9. 14	49. 5	22. 0	·1014					
9. 23	46. 0	23. 59	·1018					
9. 48	47. 0							
10. 6	45. 55							
10. 18	46. 25							
10. 30	41. 55							
10. 43	44. 35							
10. 59	43. 30							
	***							
11. 39	45. 25							
	***							
12. 27	43. 5							
12. 45	45. 0							
13. 5	44. 0							
13. 29	46. 20							
13. 45	44. 55							
14. 16	47. 40							
	***							
15. 1	45. 40							
	***							
15. 46:	48. 0							
16. 37	45. 55							
16. 57	49. 25							
17. 15	47. 55							
18. 12	48. 55							
	***							
19. 31	47. 40							
19. 52	49. 30							
	***							
21. 40	48. 0							
	***							
23. 59	53. 35							
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 0	21. 53. 40	0. 0	·1020	0. 15	·01718	1. 40	49 ·5	49 ·5
0. 51	58. 0	1. 30	·1012	4. 30	·01138	3. 40	51 ·0	51 ·5
2. 5	57. 5	2. 0	·1009	5. 40	·00978	9. 40	52 ·5	53 ·0
2. 28	58. 25	2. 20	·1012		·01094	21. 40	45 ·0	45 ·0
3. 45	55. 20	3. 15	·1001	9. 12	·01148			
4. 17	55. 25	3. 45	·1006	11. 45	·01237			
4. 40	53. 15	4. 15	·1008	17. 15	·01523			
6. 5	50. 30	4. 35	·1004	19. 16	·01527			
	***	8. 15	·1011	21. 35	·01568			
8. 56	45. 10	9. 0	·1016	23. 59	·01507			
	***	9. 30	·1013					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 15		Mar. 15						
h m	° ′ ″	h m		h m		h m	°	°
10. 4	21. 48. 15	12. 0	·1020					
	***	15. 30	·1028					
11. 0	46. 10	16. 0	·1022					
	***	16. 30	·1018					
12. 10	47. 30	17. 0	·1020					
	***	18. 0	·1028					
13. 45	47. 0	19. 0	·1026					
	***	21. 30	·1013					
14. 0	49. 20	22. 0	·1012					
	***	22. 45	·0996					
14. 49	50. 10	23. 35	·0992					
	***							
15. 51	45. 55							
16. 31	44. 35							
16. 55	47. 30							
	***							
17. 30	46. 0							
	***							
17. 45	47. 0							
17. 55	45. 10							
18. 4	46. 0							
	***							
18. 40	44. 35							
18. 59	45. 20							
	***							
19. 32	44. 15							
	***							
20. 40	55. 0							
21. 15	49. 5							
	***							
21. 58	50. 0							
22. 46	55. 0							
23. 35	55. 35							
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 30	21. 55. 30	0. 30	·1002	0. 30	·01417	1. 40	56 ·5	56 ·5
0. 48	56. 0	1. 15	·1010	2. 16	·01230	3. 40	56 ·0	56 ·5
3. 51	51. 0	2. 30	·1008	3. 32	·01037	9. 40	57 ·5	57 ·5
5. 15	51. 0	3. 30	·1006		·01154	21. 40	49 ·0	50 ·0
6. 1	49. 30	4. 15	·1002	5. 43	·01078			
	***	4. 30	·1006	5. 47	·01120			
8. 16	45. 0	5. 0	·1002	6. 2	·01120			
10. 0	45. 0	5. 30	·0998	6. 46	·01167			
10. 22	41. 30	6. 0	·0999	9. 30	·01510			
10. 55	41. 30	7. 15	·1002	11. 15	·01654			
11. 45	47. 0	8. 0	·0998	12. 55	·01822			
	***	8. 15	·0996	17. 10	·01754			
14. 32	49. 0	9. 0	·1002	19. 43	·01788			
	***	9. 45	·1008	22. 45	·01578			
17. 10	48. 30	10. 15	·1014	23. 59	·01484			
	***	10. 30	·1016					
19. 27	47. 0	11. 40	·1022					
20. 28	48. 0	12. 30	·1010					
21. 55	47. 0	13. 0	·1014					
23. 59	51. 40	14. 30	·1018					
		15. 30	·1022					
		17. 30	·1025					
		20. 0	·1026					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Mar. 17	
0. 0	21. 51. 35
1. 16	57. 10
1. 44	21. 55. 45
2. 13	22. 0. 0
2. 17	21. 56. 0
2. 28	57. 55
	***
5. 4	54. 35
	***
6. 29	55. 0
	***
7. 6	52. 20
7. 18	55. 0
	***
7. 45	54. 0
8. 16	26. 30
8. 52	48. 40
	***
9. 16	49. 0
9. 30	44. 0
	***
10. 0	44. 0
	***
10. 38	46. 5
10. 53	44. 25
11. 14	46. 35
12. 8	47. 5
12. 25	45. 0
12. 38	47. 5
13. 3	40. 30
13. 44	47. 0
13. 54	46. 0
14. 15	59. 0
15. 6	45. 0
	***
16. 14	46. 0
16. 20	43. 30
16. 35	43. 0
17. 15	55. 10
	***
18. 0	47. 25
	***
18. 45	48. 40
19. 0	46. 30
19. 22	46. 0
	***
20. 25	47. 20
20. 49	45. 30
	***
21. 51	53. 30
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 16 h m	
21. 0	·1024
21. 30	·1022
23. 0	·1012
23. 33	·1011
23. 59	·1012
Mar. 17	
0. 15	·1027
1. 0	·1031
1. 30	·1026
1. 45	·1024
2. 45	·1030
3. 0	·1028
4. 0	·1032
4. 15	·1037
4. 30	·1044
4. 37	·1051
5. 0	·1038
5. 15	·1034
6. 15	·1033
6. 45	·1040
6. 50	·1029
7. 0	·1042
7. 30	·1022
7. 45	·1028
8. 7	·1012
8. 27	·1031
	***
8. 48	·1013
9. 0	·1031
9. 15	·1018
9. 30	·1023
9. 45	·1018
10. 0	·1013
10. 45	·1028
11. 0	·1034
11. 30	·1028
12. 45	·1030
13. 0	·1040
13. 30	·1028
14. 30	·1038
15. 0	·1034
15. 30	·1038
15. 45	·1032
16. 30	·1046
17. 0	·1036
19. 0	·1038
19. 15	·1032
	***
20. 45	·1040
21. 30	·1031
21. 45	·1026
22. 0	·1018
22. 45	·1022
23. 30	·1032
23. 59	·1016

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Mar. 17 h m	
0. 0	·01458
1. 30	·01372
5. 45	·01112
8. 15	·01126
	***
8. 47	·01140
9. 45:	·01058
11. 0	·01072
12. 33	·01097
12. 47	·01080
14. 5	·01190
14. 30	·01185
16. 40	·01480
17. 47	·01540
18. 45	·01528
21. 55	·01630
23. 22	·01610

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 17 h m	°	°
1. 40	51 ·0	51 ·0
3. 40	52 ·6	53 ·0
9. 40	52 ·0	53 ·0
23. 10	46 ·0	47 ·0

Göttingen Mean Solar Time.	Western Declination.
Mar. 17 h m	° ′
23. 30	21. 52. 20
Mar. 18	
0. 0	21. 52. 35
0. 7	51. 30
0. 24	55. 0
0. 48	53. 25
1. 15	55. 0
	***
3. 5	55. 0
	***
5. 15	50. 10
6. 43	49. 10
7. 26	17. 20
7. 58:	37. 0
9. 6	43. 30
	***
11. 49	46. 25
12. 15:	44. 15
12. 35	46. 0
13. 31	47. 0
13. 52	44. 0
14. 15	43. 30
	***
15. 20	48. 30
15. 41	56. 0
15. 55	57. 30
16. 11	54. 35
16. 27	54. 40
17. 36	44. 5
18. 15	47. 0
	***
18. 43	45. 30
	(†)
20. 30	46. 30
	***
22. 0	49. 35
22. 21	48. 40
	***
23. 15	52. 30
23. 29	51. 55
	***
23. 59	53. 35
Mar. 19	
0. 0	21. 53. 40
	***
1. 44	57. 0
2. 6	55. 35
2. 31	57. 0
2. 44	55. 30
3. 0	55. 30
3. 21	51. 35
3. 32	53. 25

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 18 h m	
0. 0	·1016
0. 15	·1022
1. 0	·1032
1. 45	·1030
2. 30	·1024
3. 0	·1016
3. 45	·1010
4. 0	·1016
4. 30	·1020
6. 0	·1024
6. 30	·1028
6. 45	·1022
7. 0	·1002
7. 15	·1004
7. 35	·1038
8. 25	·1018
9. 0	·1014
9. 30	·1020
10. 0	·1014
10. 30	·1022
11. 50	·1026
12. 13	·1056
12. 40	·1035
14. 0	·1020
14. 20	·1021
14. 42	·1023
14. 50	·1019
15. 35	·1016
15. 45	·1010
16. 0	·1016
16. 45	·1030
17. 20	·1029
17. 30	·1026
18. 30	·1032
19. 0	·1026
19. 30	·1030
20. 15	·1028
20. 30	·1030
21. 0	·1025
22. 0	·1020
22. 30	·1024
23. 0	·1012
23. 30	·1002
23. 59	·1007
Mar. 19	
0. 55	·1015
2. 6	·1014
2. 32	·1022
3. 0	·1010
3. 30	·1022
4. 30	·1018
4. 58	·1015
5. 5	·1028
5. 30	·1014

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Mar. 18 h m	
0. 0	·01338
3. 30	·01147
7. 12	·00835
7. 30	·00847
11. 0	·00700
12. 30	·00514
15. 30	·00640
16. 5	·00641
20. 0	·01047
23. 15	·01252
23. 59	·01112
Mar. 19	
0. 33	·01302
2. 0:	·01198
3. 56	·00927
	·01045
4. 57	·00992
7. 15	·01074
12. 20	·00817
17. 15	·01138
21. 0	·01518

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 18 h m	°	°
9. 30	50 ·0	51 ·0
21. 40	46 ·0	46 ·0
Mar. 19		
1. 40	50 ·0	50 ·0
3. 40	52 ·5	53 ·0
9. 40	56 ·0	55 ·5
21. 40	48 ·5	49 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 19		Mar. 19		Mar. 19				
h m	° ′ ″	h m		h m		h m		
4. 21	21. 54. 20	5. 45	·1016	23. 44	·01798			
5. 22	51. 25	6. 15	·1002					
5. 50	48. 30	6. 50	·0996					
6. 4	49. 30	7. 12	·1018					
6. 31	44. 0	8. 0	·1022					
6. 44	44. 40	9. 5	·1018					
7. 2	39. 30	9. 30	·1020					
7. 37	46. 0	10. 0	·1049					
8. 16	48. 30	10. 12	·1046					
	***	10. 40	·1024					
9. 5	48. 30		***					
	***	12. 0	·1019					
9. 59	44. 25	12. 25	·1010					
10. 9	40. 0	12. 35	·1054					
10. 30	44. 10	13. 0	·1026					
	***	14. 0	·1020					
11. 30	46. 15	14. 30	·1018					
	***	15. 10	·1024					
11. 50	44. 0	16. 30	·1026					
	***	17. 0	·1028					
12. 15	46. 0	17. 50	·1022					
12. 29	29. 10	18. 30	·1030					
12. 49	47. 35	20. 0	·1014					
13. 1	44. 55	21. 0	·1018					
13. 25	43. 30	22. 15	·1007					
14. 21	46. 30		***					
	***	23. 30	·1002					
14. 41	45. 0							
15. 36	49. 25							
	***							
18. 10	50. 55							
18. 21	52. 10							
19. 42	46. 20							
20. 32	51. 25							
21. 8	49. 0							
21. 16	50. 0							
21. 45	48. 0							
22. 35	51. 0							
23. 3	50. 0							
23. 14	52. 30							
23. 59	52. 35							
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 0	21. 52. 35	0. 0	·1002	1. 20	·01662	1. 40	52 ·0	53 ·0
	***	0. 30	·1008	4. 30	·01207	3. 40	54 ·5	55 ·5
0. 20	51. 50	1. 0	·1010	5. 32	·01011	9. 40	55 ·5	55 ·5
	***	2. 15	·1007		·01064	22. 48	47 ·0	48 ·0
2. 20	56. 0	3. 25	·1007	6. 55	·01066			
	***	3. 40	·1015	7. 45	·01000			
5. 26	52. 10	4. 0	·1006	10. 8	·01086			
5. 49	48. 30	4. 15	·1010	14. 18	·01460			
6. 27	47. 30		***	16. 44	·01800			
	***	5. 15	·1003		·01746			
7. 11	48. 0		***	19. 32	·01760			
	***	5. 45	·0992	20. 47	·01748			
8. 30	45. 30	6. 0	·1002	23. 14	·01687			
	***	6. 40	·0998					
11. 0	48. 0	6. 55	·1040					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 20		Mar. 20						
h m	° ′	h m		h m		h m		
15. 18	21. 48. 0	7. 15	·1004					
15. 48	49. 0	7. 40	·1007					
16. 50	46. 45	7. 57	·1021					
17. 15	48. 0	8. 30	·1010					
18. 1	46. 15	9. 45	·1014					
18. 33	49. 30	11. 30	·1013					
18. 48	39. 0	14. 0	·1016					
19. 11	50. 30	14. 45	·1020					
19. 23	46. 30	15. 30	·1017					
	***	17. 0	·1024					
19. 36	46. 30	20. 0	·1026					
19. 51	40. 0	22. 0	·1018					
	***	22. 30	·1012					
20. 22	47. 0	23. 15	·1014					
	***							
22. 20	48. 30							
23. 15	51. 35							
23. 59	52. 25							
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 0	21. 52. 45	0. 0	·1015	0. 0	·01685	11. 0	46 ·5	47 ·0
	***	1. 30	·1018	4. 30	·01728	21. 40	43 ·0	44 ·0
1. 32	56. 0	4. 25	·1026	7. 0	·01565			
2. 52	56. 30	8. 15	·1024	8. 15	·01520			
5. 0	51. 0	9. 0	·1018	12. 46	·01728			
	***	10. 0	·1018		·01620			
6. 0	50. 0	12. 0	·1024	17. 55	·01680			
	***	12. 30	·1033	18. 0	·01580			
9. 53	45. 0	12. 45	·1036	20. 0	·01682			
	***	12. 55	·1044	23. 45	·01590			
10. 14	46. 10	14. 0	·1031					
	***	15. 0	·1030					
11. 0	44. 30	16. 0	·1032					
	***	16. 45	·1031					
11. 34	45. 30	18. 10	·1032					
	***	18. 42	·1037					
12. 26	45. 0	19. 0	·1032					
12. 41	51. 35	19. 45	·1036					
	***	21. 30	·1031					
13. 8	47. 30		(†)					
	***							
13. 41	46. 0							
14. 22	48. 0							
15. 7	47. 0							
15. 35	48. 0							
15. 46	47. 0							
	***							
18. 45	47. 45							
	***							
20. 55	45. 30							
	***							
21. 30	48. 45							
	(†)							
23. 59	52. 40							
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 0	21. 52. 45	0. 15	·1026	0. 0	·01546	1. 40	45 ·0	46 ·0
	***	1. 0	·1022	0. 40	·01546	3. 40	47 ·5	48 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
h m	° ′ ″	h m		h m		h m	°	°
1. 59	21. 56. 35	3. 0	·1031	1. 0	·01569	9. 40	45·5	46·5
2. 10	56. 0	6. 0	·1030	3. 50	·01448	21. 40	42·0	43·0
2. 44	58. 30	6. 45	·1024	7. 15	·01253			
3. 15	54. 0	7. 5	·1021	8. 30	·01190			
5. 15	53. 30	7. 15	·1034	9. 51	·01145			
	***	10. 0	·1030		{·01666			
6. 52	48. 30	11. 0	·1033	19. 11	{·01590			
7. 32	42. 30	12. 0	·1033	19. 40	·01598			
8. 20	48. 0	12. 45	·1042	19. 44	·01528			
	***	14. 0	·1038	21. 40	·01580			
10. 37	48. 30	14. 30	·1033	23. 35	·01534			
11. 0	46. 0	15. 0	·1028					
		15. 21	·1029					
12. 11	44. 15	16. 0	·1032					
		19. 5	·1028					
12. 44	46. 30							
13. 40	45. 5	18. 9	·1028					
13. 55	47. 25	21. 30	·1034					
14. 25	46. 0	22. 47	·1022					
15. 27	49. 10		(†)					
16. 30	48. 0							
17. 14	48. 20							
	***							
19. 10	48. 30							
	***							
20. 30	47. 20							
21. 14	48. 5							
21. 50	48. 0							
22. 50	49. 0							
	(†)							
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
0. 0	21. 51. 0	0. 15	·1018	0. 20	·01560	1. 40	46·0	46·5
	***	1. 55	·1024	2. 15	·01554	3. 40	46·0	46·5
1. 56	56. 30	2. 45	·1018	5. 50	·00910	9. 40	48·0	48·8
	***	3. 15	·1024	8. 45	·00764	21. 40	41·5	42·0
2. 38	54. 30	4. 0	·1026	10. 30	·00712			
3. 45	54. 55	4. 40	·1017	15. 0	·00934			
4. 23	53. 0	5. 0	·1022	22. 35	·01244			
6. 8	49. 55	5. 31	·1023	22. 15	·01548			
7. 24	51. 0	5. 50	·1015	23. 45	·01556			
8. 7	48. 0	6. 15	·1012					
8. 15	51. 0	7. 0	·1020					
	***	8. 30	·1022					
8. 51	45. 0	9. 30	·1028					
9. 15	48. 30	10. 0	·1030					
10. 20	47. 30	10. 30	·1026					
10. 38	44. 15	11. 0	·1024					
10. 58	46. 50	11. 15	·1030					
11. 15	48. 0	11. 45	·1024					
11. 44	47. 30	12. 30	·1026					
12. 0	48. 35	15. 0	·1028					
	***	16. 30	·1034					
13. 30	47. 0	18. 20	·1030					
14. 46	46. 15	19. 30	·1032					
16. 55	47. 0	21. 0	·1030					
17. 14	48. 30	22. 0	·1028					
Mar. 24		Mar. 24		Mar. 24		Mar. 24		
0. 30	21. 55. 20	0. 30	·1027	0. 25	·01552	1. 40	45·0	46·0
	***	1. 15	·1024	3. 15	·01280	3. 40	47·0	48·0
1. 15	57. 45	1. 20	·1020	7. 30	·00896	9. 40	45·5	45·5
	***	1. 30	·1018	11. 30	·00762	23. 12	40·0	41·0
1. 31	56. 30	1. 45	·1028	13. 15	·01040			
2. 30	58. 35	3. 2	·1028	17. 15	·01240			
3. 2	57. 15	3. 15	·1016	21. 58	·01583			
3. 14	58. 25	3. 42	·1024	23. 0	·01555			
	***	4. 0	·1015					
4. 45	52. 5	4. 30	·1022					
	***	5. 5	·1030					
7. 42	48. 15	5. 32	·1028					
	***	5. 53	·1029					
12. 5	46. 5	8. 30	·1030					
	***	8. 39	·1034					
12. 59	47. 0	9. 0	·1030					
13. 25	44. 30	11. 50	·1032					
13. 45	46. 10	12. 5	·1036					
	***	12. 20	·1033					
15. 22	45. 30	13. 0	·1036					
15. 39	47. 30	13. 30	·1032					
16. 0	46. 30	14. 0	·1036					
	***	15. 0	·1033					
17. 15	48. 25	17. 45	·1040					
	***	18. 30	·1045					
18. 30	46. 30	19. 45	·1045					
	***	21. 8	·1038					
19. 48	45. 10	21. 22	·1040					
20. 20	47. 40	22. 0	·1032					
20. 32	45. 15	23. 3	·1028					
	***							
22. 10	48. 45							
	***							
22. 48	52. 10							
23. 39	53. 20							
23. 59	55. 30							
Mar. 25		Mar. 25		Mar. 25		Mar. 25		
0. 0	21. 55. 40	0. 0	·1036	0. 0	·01514	10. 13	45·0	45·0
	***	0. 30	·1034	1. 15	·01532	21. 40	38·5	39·5
1. 47	59. 40		***	5. 0	·01257			
3. 27	57. 0	1. 17	·1026	8. 15	·00942			
3. 40	58. 0	3. 0	·1040	11. 0	·00742			
	***		***	13. 15	·00818			
4. 51	52. 25	6. 31	·1038	14. 0	·00828			
5. 8	52. 50	6. 45	·1041	20. 30	{·01580			
5. 30	51. 30	8. 5	·1040		{·01520			
6. 50	52. 30	9. 0	·1028	23. 0	·01554			
7. 45	49. 5	9. 30	·1033					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.25		Mar.25						
h m	° ′ ″	h m		h m		h m	c	c
8. 10	21. 44. 55	9. 56	·1044					
8. 37	47. 35	10. 13	·1048					
9. 20	48. 0	10. 39	·1035					
10. 0	43. 0	11. 0	·1032					
11. 13	47. 30	12. 0	·1028					
12. 0	48. 5	12. 45	·1020					
12. 32	46. 0		***					
13. 0	46. 30	15. 20	·1026					
13. 30	54. 35	15. 30	·1034					
	***	15. 45	·1029					
14. 45	47. 45	16. 21	·1024					
15. 14	48. 35		***					
	***	17. 2	·1031					
15. 50	46. 30	17. 30	·1033					
	***	18. 45	·1026					
17. 16	48. 0	19. 24	·1025					
	***	19. 30	·1032					
21. 0	48. 0		***					
21. 22	53. 30	20. 0	·1028					
22. 10	55. 30	21. 0	·1022					
23. 14	51. 0	21. 25	·1028					
23. 59	53. 0	21. 31	·1027					
		22. 50	·1024					
		22. 56	·1026					
		23. 59	·1031					
Mar.26		Mar.26		Mar.26		Mar.26		
0. 0	21. 53. 5	0. 0	·1031	1. 5	·01350	1. 40	44 ·0	45 ·0
0. 30	54. 30	0. 55	·1031	3. 30	·00823	3. 40	47 ·5	48 ·0
1. 0	57. 30	1. 10	·1028	4. 30	·00867	9. 40	50 ·5	51 ·4
	***	1. 17	·1037	7. 15	·00836	21. 40	43 ·5	44 ·0
1. 45	59. 5	1. 23	·1033	10. 15	·00804			
2. 21	56. 0	1. 30	·1029	14. 0	·00922			
2. 35	57. 30	2. 10	·1025	17. 15	·01178			
	***	2. 20	·1013	21. 15	·01480			
3. 55	51. 25	2. 30	·1020	23. 59	·01620			
4. 16	51. 35	3. 10	·1024					
4. 47	49. 15	3. 16	·1019					
5. 0	49. 25	3. 35	·1023					
5. 20	46. 30	3. 50	·1015					
6. 15	50. 0	4. 0	·1022					
6. 50	44. 30	4. 55	·1023					
7. 29	48. 30	5. 4	·1016					
7. 57	48. 30	5. 30	·1024					
8. 21	49. 30	6. 30	·1018					
9. 5	46. 50	6. 45	·1026					
	***	7. 15	·1026					
10. 5	49. 25	7. 30	·1021					
10. 30	57. 50	8. 25	·1024					
10. 43	50. 0	8. 55	·1019					
11. 36	48. 0	9. 7	·1024					
11. 50	49. 25	11. 32	·1030					
12. 20	47. 30	11. 54	·1021					
12. 45	49. 0	12. 45	·1020					
19. 26	47. 30	14. 30	·1024					
	***	14. 59	·1026					
20. 24	46. 0	18. 30	·1028					
	***	19. 8	·1030					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.26		Mar.26						
h m	° ′ ″	h m		h m		h m	c	c
21. 5	21. 48. 20	21. 0	·1027					
	***	22. 0	·1022					
22. 39	47. 0	23. 0	·1018					
	***	23. 30	·1016					
23. 59	52. 10	23. 59	·1020					
Mar.27		Mar.27		Mar.27		Mar.27		
0. 0	21. 52. 20	0. 58	·1018	0. 40	·01600	1. 40	46 ·5	47 ·0
0. 15	53. 15	1. 30	·1021	4. 0	·01238	3. 40	48 ·5	49 ·0
0. 30	53. 20	2. 20	·1020	6. 30	·00907	9. 40	49 ·0	50 ·0
1. 0	54. 35	3. 45	·1025	7. 18	·00842	21. 40	44 ·0	45 ·3
1. 14	53. 30	4. 45	·1024		·00965			
1. 36	55. 20	6. 0	·1026	8. 25	·00859			
6. 14	48. 40	6. 30	·1028	9. 43	·00900			
7. 0	49. 0	7. 30	·1028	13. 0	·00977			
	***	8. 15	·1032	14. 0	·01002			
9. 15	49. 0	8. 45	·1028	18. 0	·01360			
9. 50	50. 30	9. 34	·1026	21. 30	·01640			
10. 32	48. 20	12. 30	·1032	23. 0	·01708			
12. 55	47. 30	13. 45	·1041	23. 59	·01698			
13. 20	49. 0	14. 32	·1033					
13. 32	48. 25	15. 5	·1038					
13. 45	49. 30	16. 0	·1036					
14. 19	46. 10	19. 0	·1034					
14. 45	49. 20	20. 15	·1025					
15. 0	48. 0	21. 47	·1019					
15. 44	48. 30	22. 30	·1015					
16. 6	46. 30		***					
17. 3	45. 0	23. 31	·1014					
	***	23. 59	·1019					
18. 50	45. 10							
19. 15	44. 20							
	***							
20. 18	46. 35							
20. 30	45. 35							
20. 55	46. 5							
21. 5	49. 30							
22. 0	48. 0							
	***							
23. 36	55. 15							
Mar.28		Mar.28		Mar.28		Mar.28		
0. 0	21. 54. 0	0. 0	·1014	0. 38	·01645	1. 40	48 ·0	49 ·0
	***	0. 30	·1011	2. 4?	·01529	3. 40	50 ·5	51 ·0
0. 51	59. 0	0. 41	·1010	5. 35	·01018	9. 40	51 ·0	51 ·5
1. 26	57. 40	1. 12	·1016	6. 45	·00862	21. 40	44 ·0	45 ·0
1. 51	58. 0	1. 28	·1012	6. 47	·00901			
4. 36	51. 50	2. 15	·1019	8. 35	·00856			
	***	3. 30	·1022		·00900			
5. 45	51. 0	4. 20	·1021	9. 54	·00970			
6. 30	45. 30	5. 0	·1033	13. 26	·01132			
7. 6	48. 40	5. 15	·1023	19. 47	·01724			
8. 5	47. 10	5. 47	·1008	19. 56	·01672			
	***	6. 15	·1016	21. 20	·01663			
10. 12	49. 0	7. 0	·1018	22. 15	·01630			
	***	8. 0	·1024	23. 26	·01659			
11. 10	46. 30	10. 0	·1027					
	***	10. 30	·1024					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 28		Mar. 28						
h m	° ′ ″	h m		h m		h m	°	°
12. 8	21. 47. 0	12. 15	·1024					
	***	12. 35	·1033					
12. 59	45. 20	13. 0	·1029					
13. 30	50. 15	13. 22	·1025					
14. 14	47. 35	13. 48	·1032					
14. 50	48. 30	15. 0	·1026					
	***	15. 25	·1028					
20. 44	45. 0	17. 15	·1032					
	***	20. 0	·1031					
21. 30	47. 30	21. 45	·1022					
	***	22. 15	·1016					
22. 14	45. 30	23. 59	·1009					
23. 45	52. 15							
23. 59	52. 15							
Mar. 29		Mar. 29		Mar. 29		Mar. 29		
0. 0	21. 52. 0	0. 18	·1012	0. 28	·01680	1. 40	48 ·0	49 ·0
1. 15	55. 0	2. 45	·1013	2. 11:	·01561	3. 40	50 ·0	50 ·5
2. 25	55. 0	3. 25	·1016	4. 28	·01200	9. 40	52 ·0	52 ·5
5. 40	49. 30	4. 22	·1014	7. 2	{ ·00840	21. 40	44 ·0	45 ·0
6. 30	49. 0	5. 13	·1021		{ ·00890			
7. 38	47. 0	5. 22	·1018	7. 24	{ ·00884			
	***	6. 47	·1022		{ ·01120			
11. 0	48. 0	7. 15	·1019	10. 30	·01400			
11. 20	47. 0	10. 30	·1022	13. 43	·01235			
11. 50	48. 30	10. 58	·1028	19. 21	·01705			
	***	11. 32	·1021	21. 33	·01672			
16. 0	47. 0	12. 15	·1024	21. 36	·01638			
16. 35	48. 15	15. 46	·1030	23. 59	·01630			
	***	17. 37	·1036					
17. 16	47. 0	18. 22	·1034					
	***	19. 15	·1036					
20. 21	45. 15	20. 30	·1032					
21. 15	45. 20	21. 6	·1031					
22. 20	48. 0	23. 0	·1028					
	***	23. 55	·1024					
22. 29	49. 0							
22. 49	47. 30							
	***							
23. 59	54. 30							
Mar. 30		Mar. 30		Mar. 30		Mar. 30		
0. 0	21. 54. 35	0. 30	·1016	0. 35	·01661	1. 40	48 ·0	49 ·0
0. 30	53. 20	0. 50	·1016	2. 0:	·01579	3. 40	50 ·0	50 ·5
0. 44	55. 30	1. 0	·1030	4. 15	·01280	9. 40	51 ·5	52 ·5
0. 52	54. 30	1. 15	·1027	6. 59	{ ·00866	21. 40	44 ·0	45 ·0
1. 9	57. 35	2. 0	·1019		{ ·00919			
1. 16	57. 0	2. 30	·1020	9. 2	·00840			
1. 49	59. 0	2. 46	·1025	9. 9	·00940			
2. 15	57. 0	3. 13	·1031	11. 0	·01008			
	***	3. 30	·1022	16. 8	·01444			
3. 15	57. 0	3. 46	·1024	19. 4	·01734			
	***	4. 0	·1016	19. 7	·01690			
3. 50	55. 10	4. 30	·1021	23. 59	·01689			
4. 12	52. 0	5. 0	·1022					
	***	5. 19	·1018					
5. 48	53. 15	5. 57	·1024					
	***	6. 30	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 30		Mar. 30						
h m	° ′ ″	h m		h m		h m	°	°
9. 7	21. 48. 0	7. 0	·1026					
	***	7. 15	·1024					
12. 20	47. 35	8. 0	·1026					
	***	9. 27	·1024					
14. 15	49. 35	10. 30	·1028					
15. 59	48. 0	11. 45	·1032					
17. 14	48. 0	14. 30	·1034					
	***	18. 15	·1038					
20. 55	44. 30	19. 8	·1036					
	***	20. 30	·1039					
21. 15	46. 35	21. 0:	·1036					
	***	21. 45	·1024					
22. 6	45. 30	23. 59	·1018					
	***							
23. 59	51. 30							
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
0. 0	21. 51. 35	0. 45	·1021	0. 32	·01648	1. 40	49 ·0	50 ·0
	***	3. 30	·1021	2. 51:	·01409	3. 40	52 ·0	53 ·0
1. 55	55. 0	4. 20	·1025	5. 6	·00906	9. 40	52 ·5	53 ·0
4. 6	51. 15	4. 30	·1019	5. 13	·00940	23. 30	41 ·0	42 ·0
5. 5	49. 40	6. 27	·1026	7. 5	·00901			
	***	8. 15	·1026	7. 15	·00982			
7. 28	47. 25	9. 5:	·1018	7. 33	·00972			
	***	10. 45	·1038	9. 55	·01110			
8. 20	47. 30	11. 30	·1034	10. 25:	·01138			
8. 55	46. 0	14. 45	·1036	11. 45	·01262			
10. 29	50. 30	15. 45	·1042	15. 4	·01738			
11. 6	48. 0	17. 0	·1046	15. 10	·01681			
12. 38	48. 55	18. 56	·1028	21. 0	·01678			
	***	20. 30	·1044	23. 44	·01598			
14. 33	47. 0	21. 45	·1039					
15. 9	51. 0	22. 15	·1034					
15. 50	47. 30	23. 45	·1032					
18. 50	46. 55	23. 59	·1026					
	***							
20. 25	44. 30							
22. 6	48. 50							
22. 13	48. 0							
22. 28	51. 0							
23. 7	52. 50							
23. 17	54. 30							
23. 59	55. 25							
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
0. 0	21. 55. 25	0. 17	·1032	0. 0	·01604	9. 44	49 ·0	50 ·0
1. 21	58. 30	1. 15	·1031	1. 20	·01598	21. 40	41 ·5	43 ·0
2. 9	57. 50	2. 15	·1036	3. 46:	·01341			
3. 25	54. 0	3. 0	·1038	7. 44:	·01001			
7. 55	47. 25	4. 0	·1040	9. 36	{ ·00898			
10. 5	46. 0	5. 30	·1038		{ ·00930			
11. 0	48. 30	6. 43	·1040	13. 13	·00900			
12. 0	48. 15	9. 0	·1038	16. 23	·01081			
16. 13	48. 35	11. 30	·1034	19. 56	·01438			
18. 35	46. 0	12. 15	·1038	22. 14	·01660			
	***	13. 15	·1042	22. 17	·01645			
20. 46	45. 0	14. 45	·1044	23. 59	·01624			
21. 14	47. 30	18. 0	·1042					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 1		Apr. 1						
h m	° ′ ″	h m		h m		h m		
23. 2	21. 48. 35	18. 45	·1044					
23. 35	51. 30	20. 30	·1043					
23. 59	52. 35	21. 15	·1037					
		22. 15	·1030					
		22. 45	·1025					
		23. 59	·1026					
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	21. 52. 40	0. 8	·1031	0. 15	·01628	1. 40	44 ·8	45 ·0
1. 10	56. 0	1. 0	·1033	1. 55	·01609	3. 40	46 ·5	48 ·5
2. 20	57. 0	1. 46	·1039		·01476	9. 40	51 ·0	51 ·0
4. 0	52. 0	3. 0	·1032	3. 31	·01232	21. 40	44 ·0	45 ·0
5. 16	49. 40	4. 15	·1037	5. 0	·00968			
7. 15	49. 40	5. 20	·1034	5. 8	·00994			
7. 48	48. 0	6. 45	·1034	8. 28	·00940			
8. 2	49. 0	7. 30	·1032	11. 34	·01068			
	***	10. 45	·1034	15. 50	·01344			
13. 1	47. 0	11. 15	·1036	20. 1	·01652			
	***	12. 15	·1040	22. 13:	·01701			
13. 33	49. 0	13. 15	·1038	23. 59	·01650			
14. 8	46. 30	13. 45	·1046					
14. 50	48. 0	14. 45:	·1038					
	***	15. 15	·1043					
16. 15	46. 0	16. 43	·1044					
19. 0	45. 0	18. 15	·1046					
	***	19. 57	·1048					
20. 45	42. 30	20. 30	·1046					
	***	21. 15	·1039					
21. 45	46. 35	21. 30	·1034					
	***	22. 45	·1032					
22. 14	46. 30	23. 6	·1028					
	***	23. 16	·1032					
23. 59	54. 30	23. 59	·1027					
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
1. 40	21. 56. 57*		(†)	0. 28	·01598	1. 40	48 ·5	49 ·0
3. 40	56. 10*	2. 31	·1043	5. 30	·01080	3. 40	50 ·5	51 ·0
9. 40	49. 12*	3. 46	·1041	7. 9	·00960	9. 40	52 ·0	52 ·5
21. 40	54. 35*	4. 0	·1036		·00990	21. 40	47 ·5	48 ·0
		4. 15	·1035	11. 17	·00950			
		4. 22	·1048	14. 30	·01004			
		4. 45	·1036	18. 40	·01210			
		4. 52	·1050		***			
		5. 10	·1034	22. 54	·01365			
		5. 22	·1038	23. 59	·01359			
		5. 35	·1030					
		5. 48	·1039					
		6. 5	·1033					
		7. 15	·1031					
		7. 37	·1020					
		7. 58	·1024					
		8. 3	·1014					
		8. 16	·1011					
		8. 33	·1015					
		8. 47	·1014					
		9. 3	·1034					
		9. 30	·1033					
		10. 8	·1022					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Apr. 3						
h m	° ′ ″	h m		h m		h m		
		10. 27	·1016					
		10. 40	·1027					
		10. 50	·1018					
		11. 0	·1024					
			***					
		11. 32	·1002					
		12. 0	·1032					
			***					
		12. 30	·1024					
		12. 50	·1027					
		13. 5	·1024					
		13. 30	·1037					
		14. 0:	·1041					
		14. 30	·1039					
		15. 0	·1031					
		17. 0	·1027					
		19. 2	·1043					
		19. 30	·1039					
		20. 0	·1042					
		21. 15	·1036					
		21. 30	·1040					
		22. 0	·1037					
		22. 45	·1031					
		23. 10	·1028					
		23. 30	·1040					
		23. 59	·1002					
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 20	21. 59. 30	0. 24	·1007	0. 28	·01352	1. 40	52 ·0	53 ·0
0. 45	22. 4. 0	0. 29	·1017	2. 35:	·01211	3. 40	55 ·0	55 ·5
0. 52	6. 35	0. 43	·1006		***	9. 40	55 ·5	56 ·0
1. 9	1. 0	0. 53	·1012	3. 46	·01040	21. 40	55 ·5	56 ·0
1. 28	22. 3. 20	1. 6	·1002		·01120			
1. 47	21. 58. 0	1. 29	·1018		***			
	***	1. 55	·1012	4. 54	·01147			
2. 56	55. 20	2. 27	·1024		***			
3. 6	57. 0	2. 43	·1020	5. 34	·01230			
	***	3. 15	·1022		***			
4. 3	55. 30	4. 17	·1037	6. 25	·01210			
4. 29	58. 0	5. 0	·1022	7. 40	·01196			
4. 35	21. 57. 30	5. 29	·0970	8. 3	·01146			
	***	5. 33	·0986	8. 13	·01212			
4. 50	22. 0. 0	5. 43	·0974	8. 29:	·01210			
	***	6. 6	·1011	8. 58	·01226			
5. 15	21. 56. 0	6. 18	·1006	9. 16	·01140			
5. 55	37. 30	6. 37	·1003	10. 14	·01180			
6. 11	43. 30	6. 45	·1008	10. 45	·01243			
6. 20	43. 30	7. 0	·1005	11. 0	·01230			
6. 35	48. 35	7. 15	·1016	11. 30	·01261			
6. 45	47. 0	7. 32	·1008	11. 46	·01240			
7. 0	49. 0	7. 36	·1029	12. 0	·01310			
7. 14	46. 0	7. 47	·1011	13. 30	·01424			
7. 22	48. 0	8. 0	·1023	13. 49	·01529			
7. 33	39. 0	8. 10	·1022	14. 43	·01578			
7. 44	44. 35	8. 35	·0996	15. 51	·01745			
7. 51	39. 0	9. 0	·1054		·01660			
8. 10	46. 0	9. 12	·1007	20. 46	·01751			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 3. There was no Photographic Trace for the Declination Magnet.

Göttingen Mean Solar Time.	Western Declination.
Apr. 4	
h m	° ′ ″
8. 30	21. 47. 0
8. 45	42. 0
8. 57	32. 30
9. 6	46. 0
9. 20	32. 0
	***
9. 58	38. 0
10. 8	44. 25
	***
10. 40	41. 25
10. 45	42. 0
11. 4	31. 30
11. 36	41. 50
11. 52	34. 0
12. 15	46. 0
12. 28	42. 0
12. 36	42. 30
12. 45	41. 0
13. 26	44. 30
13. 44	43. 0
	***
15. 25	52. 0
15. 49	47. 30
16. 46	44. 0
17. 0	45. 55
17. 14	45. 0
17. 45	47. 5
18. 0	46. 30
18. 16	49. 20
	***
21. 0	18. 0
21. 14	49. 50
	***
21. 33	49. 20
21. 47	52. 20
22. 20	50. 35
23. 15	56. 35
23. 42	57. 20
23. 59	56. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 4	
h m	
9. 25	·1025
9. 55	·1024
10. 20	·0998
10. 45	·1014
10. 50	·1002
11. 0	·1016
11. 25	·1008
11. 53	·1007
12. 10	·1053
12. 28	·1028
13. 10	·1024
13. 37	·1002
14. 0	·1012
14. 47	·1006
15. 30	·1016
15. 54	·1022
16. 8	·1013
16. 25	·1036
17. 5	·1014
18. 0	·1010
18. 50	·1014
19. 30	·1019
20. 30	·1025
21. 45	·1016
22. 2	·1006
22. 30	·1012
23. 15	·0999
23. 59	·1001

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 4	
h m	
22. 58:	·01708
23. 59	·01605

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°

Göttingen Mean Solar Time.	Western Declination.
Apr. 5	
h m	° ′ ″
7. 20	21. 49. 0
	***
8. 41	44. 25
9. 5	47. 30
9. 45	46. 30
10. 1	32. 30
10. 19	34. 0
	***
10. 41	47. 0
11. 2	42. 0
11. 27	46. 0
11. 39	45. 30
12. 1	48. 30
	***
14. 15	46. 30
15. 10	50. 35
	***
16. 23	45. 30
16. 40	47. 10
	***
17. 13	46. 10
17. 29	48. 35
17. 35	46. 0
18. 0	45. 5
	***
19. 35	47. 30
19. 54	44. 0
20. 6	47. 0
20. 44	49. 0
21. 16	47. 30
	***
23. 23	55. 35

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 5	
h m	
7. 37	·1000
7. 58	·1020
8. 30	·1005
9. 45	·1008
10. 6	·1047
10. 30	·1031
10. 45	·1012
11. 15	·1011
11. 28	·1001
12. 0	·1006
15. 0	·1011
16. 0	·1014
18. 0	·1011
19. 0	·1008
19. 55	·1009
20. 30	·1014
21. 10	·1012
22. 0	·0998
22. 55	·0994
23. 20	·0995

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 5	
h m	
16. 45	·01710
18. 48	·01892
	·01850
20. 30	·01831
22. 0	·01850
23. 24	·01812

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°

Göttingen Mean Solar Time.	Western Declination.
Apr. 6	
0. 0	21. 53. 55
0. 30	58. 0
1. 30	57. 0
	***
3. 9	57. 30
4. 22	53. 35
4. 36	55. 0
	***
5. 25	50. 15
6. 35	50. 0
7. 14	51. 0
8. 50	49. 30
9. 16	45. 0
10. 0	53. 30
10. 46	45. 30
11. 15	47. 40
12. 25	46. 0
13. 5	49. 30
14. 12	49. 30
14. 51	46. 0
17. 5	46. 0
17. 21	49. 30
18. 50	45. 0
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 6	
h m	
0. 0	·0996
0. 40	·0997
1. 0	·1009
2. 25	·1028
2. 40	·1018
3. 45	·1024
3. 58	·1014
4. 15	·1023
4. 30	·1021
4. 45	·1000
4. 59	·0997
5. 37	·1014
8. 0	·1010
9. 30	·1010
10. 15	·1020
11. 0	·1019
11. 30	·1010
13. 3	·1020
14. 30	·1016
15. 0	·1014
16. 35	·1018
17. 0	·1011
17. 28	·1006
18. 30	·1004

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 6	
h m	
0. 0	·01757
1. 10	·01657
4. 46	·01181
	·01230
7. 50	·01162
8. 1	·01210
9. 59	·01200
10. 20:	·01167
13. 40	·01260
14. 16:	·01290
16. 25	·01469
21. 25	·01880
	·01800
23. 55	·01635

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 6		
h m	°	°
9. 40	61 ·0	62 ·0
21. 40	56 ·0	57 ·0

Göttingen Mean Solar Time.	Western Declination.
Apr. 5	
0. 5	21. 57. 0
0. 30	57. 30
1. 8	56. 30
1. 31	59. 0
1. 40	58. 0
	***
2. 20	58. 0
2. 38	55. 5
	***
3. 23	54. 0
	***
5. 0	54. 30
5. 20	49. 0
5. 28	49. 55
5. 46	38. 30
6. 27	47. 10
6. 47	44. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 5	
0. 20	·1012
1. 23	·1020
2. 33	·1010
3. 2	·1016
3. 9	·1008
3. 32	·1004
3. 44	·1014
4. 30	·1010
	***
5. 10	·1002
5. 28	·1020
5. 41	·1002
5. 57	·1034
6. 32	·1002
6. 55	·1015
7. 12	·1006

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 5	
h m	
0. 12	·01575
0. 30	·01569
0. 58	·01520
3. 2	·01100
	·01130
3. 28	·01146
	·01220
5. 0	·01149
5. 30	·01147
5. 42	·01140
6. 0	·01176
6. 31	·01139
7. 58	·01211
8. 14	·01191
9. 16	·01237
11. 32	·01348

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 5		
h m	°	°
1. 40	49 ·0	50 ·0
3. 40	54 ·0	55 ·5
9. 40	58 ·0	58 ·5
22. 52	51 ·0	52 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 6		Apr. 6						
h m	° ′ ″	h m		h m		h m		
20. 15	21. 44. 30	19. 0	·1014					
21. 16	45. 0	20. 10	·1021					
	***	21. 10	·1014					
21. 45	48. 30	21. 22	·1024					
	***	21. 55	·1012					
23. 20	51. 30	23. 25	·1005					
23. 59	54. 25							
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 20	21. 54. 30	0. 30	·1009	0. 21	·01823	1. 40	59 ·0	60 ·0
1. 6	57. 35	2. 0	·1013	1. 24	·01798	3. 40	60 ·0	62 ·0
2. 25	57. 0	3. 0	·1016	3. 45	·01602	9. 40	59 ·5	59 ·5
	***	3. 45	·1016	5. 20	·01680	23. 9	50 ·0	50 ·0
5. 40	51. 30	4. 3	·1027		***			
6. 0	50. 20	4. 45	·1021	7. 32	·01501			
6. 16	37. 35	5. 12	·1028	7. 42	·01625			
6. 25	49. 0	5. 20	·1018	10. 16	·01695			
	***	5. 45	·1024	13. 16	·01875			
6. 50	35. 30	6. 2	·1034		·01830			
7. 13	42. 5	6. 15	·1023	18. 26	·01796			
7. 44	42. 30	6. 45	·1028	23. 0	·01750			
8. 15	44. 50	7. 15	·1016					
8. 34	43. 30	7. 45	·1004					
	***	8. 10	·1006					
9. 13	47. 0	8. 30	·1002					
9. 34	45. 25	9. 8	·1010					
10. 19	48. 30	9. 15	·1006					
10. 45	46. 25	10. 19	·1012					
11. 0	46. 30	10. 44	·1007					
11. 15	49. 0	11. 15	·1016					
11. 59	46. 35	12. 0	·1020					
12. 8	47. 30	12. 45	·1016					
12. 38	47. 30	14. 15	·1022					
12. 59	45. 35	18. 0	·1026					
13. 23	47. 0	19. 45	·1032					
13. 25	46. 0	20. 0	·1026					
14. 29	46. 20	20. 50	·1027					
	***	23. 5	·1012					
15. 13	44. 30	23. 59	·1028					
	***							
17. 44	46. 0							
21. 16	45. 0							
22. 50	49. 25							
23. 59	52. 0							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 0	21. 52. 10	0. 0	·1029	0. 0	·01740	9. 40	52 ·0	52 ·0
1. 45	56. 0	0. 32	·1020	0. 50	·01726	21. 40	49 ·0	49 ·5
5. 0	49. 20	3. 0	·1034	2. 15	·01761			
5. 30	49. 0	5. 0	·1037	3. 30	·01760			
5. 51	45. 30	5. 45	·1040	5. 55	·01718			
	***	6. 30	·1034	12. 46	·01580			
6. 30	46. 30	6. 45	·1044	14. 10	·01587			
6. 45	48. 30	7. 0	·1026	17. 44	·01760			
7. 5	45. 0	7. 15	·1034		·01680			
7. 51	48. 0	8. 45	·1039	17. 54	·01680			
	***	10. 0	·1031		·01592			
8. 29	42. 0	10. 30	·1026	18. 45	·01613			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 8		Apr. 8		Apr. 8				
h m	° ′ ″	h m		h m		h m	°	°
9. 33	21. 41. 15	11. 15	·1028	21. 14	·01556			
9. 53	44. 20	12. 0	·1033	23. 59	·01370			
11. 30	47. 15	12. 58	·1040					
11. 44	45. 30	13. 15	·1034					
11. 56	46. 0	14. 0	·1040					
12. 30	52. 40	15. 0	·1030					
13. 30	46. 0	16. 8	·1038					
14. 28	52. 55	16. 30	·1045					
15. 58	45. 0	19. 8	·1041					
16. 10	53. 35	19. 30	·1051					
16. 34	47. 0	20. 6	·1024					
17. 22	44. 20	21. 0	·1040					
	***	21. 10	·1026					
20. 5	47. 0	22. 45	·1033					
	***	23. 14	·1037					
20. 27	44. 50							
	***							
21. 23	45. 50							
	***							
21. 31	48. 5							
	***							
22. 11	47. 30							
	***							
22. 58	49. 20							
23. 32	53. 30							
23. 46	53. 0							
23. 59	54. 50							
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 0	21. 55. 0	0. 32	·1020	0. 33	·01340	1. 40	53 ·0	54 ·0
0. 30	21. 57. 10	1. 4	·1008	1. 30	·01300	3. 40	53 ·5	54 ·0
1. 20	22. 1. 45	1. 45	·1017	5. 20	·00947	9. 40	56 ·0	57 ·0
2. 37	21. 55. 20	2. 28	·1028	6. 57	·00959	21. 40	51 ·5	52 ·5
	***	3. 15	·1032	7. 28	·00968			
5. 14	52. 30	4. 0	·1034	7. 45	·00960			
6. 29	48. 15	5. 18	·1036	10. 44	·00916			
	***	5. 47	·1029	11. 25	·00886			
7. 1	48. 20	6. 12	·1034	11. 57	·00900			
	***	6. 45	·1026	15. 52	·01025			
7. 29	44. 0	7. 45	·1037	18. 47	·01208			
	***	8. 2	·1040	23. 6	·01580			
8. 34	48. 0	9. 30	·1034	23. 59	·01593			
9. 28	44. 25	10. 40	·1028					
	***	10. 53	·1043					
10. 29	46. 0							
10. 36	44. 30	11. 25	·1046					
	**	12. 0	·1034					
11. 5	45. 10	12. 20	·1030					
11. 16	43. 0	12. 45	·1035					
	***	14. 0	·1028					
11. 52	44. 0	16. 10	·1028					
12. 15	41. 30	17. 0	·1032					
13. 0	44. 55	17. 45	·1029					
13. 32	42. 30	19. 0	·1033					
14. 2	47. 30	19. 45	·1040					
	***	20. 30	·1033					
14. 44	43. 30	21. 15	·1038					
	***	22. 15	·1018					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 9		Apr. 9						
h m	° ′ ″	h m		h m		h m	°	°
15. 29	21. 47. 35	22. 43	·1025					
	***	23. 30	·1017					
16. 30	44. 30	23. 55	·1003					
17. 36	46. 35							
18. 10	45. 0							
19. 15:	50. 30							
20. 51	46. 0							
	***							
22. 3	50. 40							
22. 25	48. 30							
22. 45	51. 30							
23. 30	55. 0							
23. 44	54. 55							
23. 50	55. 35							
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 5	21. 56. 0	0. 0	·1003	0. 41	·01600	1. 40	54 ·0	54 ·5
1. 19	56. 30	0. 25	·1001	1. 25	·01627	3. 40	55 ·0	56 ·0
1. 45	58. 35	1. 0	·1016	3. 43	·01516	9. 40	54 ·0	55 ·0
2. 1	57. 30	1. 43	·1025	5. 30:	·01360	21. 40	49 ·0	50 ·0
2. 20	58. 40	1. 58	·1019	7. 40	·01340			
3. 30	57. 0	2. 21	·1026	8. 14	·01377			
	***	2. 52	·1018	10. 30:	·01468			
6. 40	44. 10	3. 47	·1034	11. 30	·01460			
7. 20	46. 10	4. 15	·1034	16. 25	·01765			
8. 15	45. 10	5. 22	·1018		·01670			
9. 21	46. 5	6. 14	·1032	19. 15	·01718			
	***	6. 27	·1027	23. 46	·01715			
10. 39	43. 0	6. 54	·1037					
	***	7. 15	·1030					
11. 30	44. 35	8. 15	·1036					
11. 46	43. 30	10. 15	·1034					
12. 0	45. 0	10. 52	·1057					
12. 44	43. 0	12. 0	·1043					
13. 7	44. 40	12. 47	·1046					
14. 15	41. 40	13. 30	·1040					
15. 3	46. 0	14. 15	·1031					
16. 28	45. 0	16. 0	·1035					
	***	17. 0	·1032					
18. 45	47. 0	18. 0	·1035					
	***	18. 45	·1040					
20. 25	46. 0	20. 15	·1037					
	***	23. 55	·1028					
21. 59	49. 0							
	***							
22. 40	48. 45							
23. 45	51. 30							
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 0	21. 51. 25	0. 0	·1026	0. 0	·01705	1. 40	51 ·0	52 ·0
0. 36	54. 30	0. 17	·1022	3. 6:	·01507	3. 40	54 ·0	54 ·5
	***	1. 43	·1028	6. 0	·01140	9. 40	56 ·0	56 ·5
2. 0	55. 30	2. 30	·1031	7. 34	·01007	21. 40	52 ·5	53 ·0
3. 27	53. 0	4. 6	·1034	7. 43	·01100			
4. 2	53. 0	4. 30	·1034	8. 0	·01090			
6. 37	49. 15	4. 45	·1036	12. 15	·01193			
	***	7. 26	·1040	15. 30	·01326			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 11		Apr. 11		Apr. 11				
h m	° ′ ″	h m		h m		h m	°	°
7. 40	21. 47. 20	8. 0	·1034	21. 36	·01476			
8. 50	47. 0	11. 55	·1038		·01260			
9. 16	45. 15	12. 4	·1045	23. 59	·01234			
	***	12. 35	·1040					
10. 14	47. 10	14. 0	·1037					
	***	15. 23	·1036					
11. 46	46. 0	17. 0	·1041					
12. 2	49. 30	18. 15	·1036					
12. 29	46. 0	19. 0	·1043					
	***	20. 30	·1038					
14. 14	45. 0	23. 6	·1024					
14. 30	46. 0							
	***							
15. 9	45. 0							
15. 25	45. 30							
15. 35	48. 0							
15. 52	46. 0							
	***							
16. 31	45. 5							
17. 35	42. 0							
18. 30	45. 0							
	***							
19. 45	43. 30							
	***							
21. 45	46. 10							
23. 58	53. 20							
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 5	21. 54. 50	1. 40	·1025*	0. 48	·01201	1. 40	55 ·5	55 ·5
1. 15	57. 10	3. 40	·1002*	3. 0	·01067	3. 40	57 ·0	57 ·5
	***	9. 40	·1030*	3. 34	·01047	9. 40	61 ·0	60 ·0
3. 5	21. 57. 30	21. 40	·1018*		***	21. 40	55 ·0	56 ·0
3. 14	22. 0. 30			4. 56	·01040			
3. 28	21. 56. 30			5. 14	·01015			
3. 51	57. 40			6. 15	·01040			
4. 14	57. 5			6. 20	·01111			
	***			6. 35	·01116			
5. 0	59. 0			8. 14	·01309			
5. 21	56. 35			9. 16	·01366			
	***			11. 21	·01428			
6. 1	45. 0			11. 40	·01359			
	***			12. 28	·01312			
7. 15	47. 0			13. 14	·01410			
	***			13. 45	·01399			
10. 0	45. 15				***			
10. 25	44. 0			15. 32	·01619			
10. 50	28. 30			17. 10	·01746			
11. 0	27. 0			17. 55	·01765			
11. 19	39. 30			18. 45	·01858			
11. 50	25. 0			18. 53	·01810			
12. 11	34. 0			21. 43	·01810			
12. 31	28. 30			23. 59	·01719			
13. 5	29. 0							
13. 20	51. 30							
13. 35	45. 35							
	***							
14. 1	41. 35							
14. 13	43. 30							
14. 37	42. 40							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Apr. 12								
h m	° ′ ″	h m		h m		h m	°	°
14. 51	21. 44. 30							
	***							
15. 17	41. 30							
15. 35	47. 0							
	***							
16. 1	46. 0							
	***							
17. 0	58. 30							
17. 17	54. 0							
17. 23	54. 35							
18. 0:	50. 35							
19. 15	49. 35							
19. 29	48. 0							
19. 34	46. 0							
20. 5	49. 0							
	***							
20. 48	46. 0							
	***							
22. 15	49. 30							
22. 34	52. 0							
23. 27	53. 0							
23. 59	56. 35							
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 16	21. 55. 15	0. 47	·1013	0. 14	·01692	1. 40	56 ·0	57 ·0
	***	1. 17	·1018	7. 29	·01498	3. 40	57 ·5	58 ·0
1. 46	58. 0	2. 4	·1011	9. 45	·01380	9. 47	58 ·0	59 ·0
3. 50	54. 35		***	11. 29	·01378	21. 40	53 ·0	54 ·5
6. 30	48. 25	3. 45	·1014	11. 40	·01398			
6. 57	49. 0	3. 51	·1011	11. 59	·01368			
7. 21	48. 30	4. 6	·1016	13. 57	·01580			
8. 33	51. 0	4. 30	·1011		·01500			
9. 0	48. 0	4. 45	·1017	18. 45	·01559			
9. 20	50. 30	5. 45	·1007	21. 20	·01540			
	***	6. 0	·1004	21. 50	·01535			
10. 32	56. 30	6. 44	·1014	22. 31	·01538			
11. 14	48. 0	7. 12	·1010	22. 55	·01498			
11. 40	45. 30		(†)	23. 55	·01496			
11. 49	48. 35	10. 0	·1016					
12. 11	45. 25	11. 0	·1013					
12. 29	47. 0	11. 28	·1027					
12. 58	43. 25	11. 41	·1054					
14. 0	47. 0	12. 6	·1032					
18. 15	45. 0	12. 17	·1042					
	***	12. 42	·1040					
19. 26	43. 25	13. 15	·1028					
	***	15. 18	·1034					
21. 20	44. 35		***					
	***	17. 0	·1036					
22. 12	50. 10	19. 15	·1034					
22. 45	50. 30	20. 40	·1031					
23. 14	54. 0	21. 40	·1017					
	***		***					
23. 59	54. 30	23. 59	·1015					
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 0	21. 54. 35	0. 5	·1016	0. 40	·01420	1. 40	58 ·0	59 ·0
0. 45	57. 0	1. 15	·1023	2. 0:	·01283	3. 40	60 ·0	60 ·5
					***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 57. 10	2. 30	·1020	2. 16	·01071	0. 40	62 ·0	62 ·5
2. 23	54. 0	3. 5	·1034	4. 0	·01187	23. 4	53 ·0	54 ·0
3. 15	51. 0	3. 45	·1030	6. 50:	·01081			
6. 6	48. 0	4. 10	·1023	8. 44	·01220			
6. 36	48. 35	4. 26	·1033	12. 20	·01521			
8. 19	46. 15	4. 32	·1028	13. 50	·01608			
	***	4. 40	·1036	14. 30	·01640			
9. 14	47. 30	5. 15	·1027	15. 14	·01684			
	***	6. 0	·1034	16. 4	·01808			
10. 15	33. 35	6. 35	·1006	16. 11	·01778			
10. 45	38. 0	7. 13	·1037					
11. 30	46. 30	7. 54	·1045	18. 0	·01773			
	***	8. 35	·1020	18. 40	·01741			
12. 58	47. 30	9. 0	·1026	18. 48	·01766			
	***	9. 15	·1016	19. 45	·01735			
13. 30	53. 35	9. 40	·1016	23. 16	·01752			
13. 58	50. 10	10. 0	·1006					
14. 8	50. 45	10. 20	·1016					
	***	10. 55	·1014					
15. 15	44. 0	12. 5	·1026					
15. 50	44. 0	12. 25	·1016					
16. 5	47. 20		***					
16. 11	45. 30	14. 15	·1014					
16. 17	48. 0	14. 30	·1010					
	***	15. 0	·1019					
16. 49	45. 20	15. 45	·1018					
17. 5	48. 0	16. 0	·1026					
17. 16	45. 15	20. 10	·1021					
17. 43	48. 0	20. 25	·1031					
17. 55	48. 0	21. 30	·1013					
18. 23	53. 0	22. 0	·1000					
18. 34	51. 10	22. 30	·1005					
18. 50	55. 30	23. 13	·1014					
19. 7	52. 30	23. 59	·0996					
	***							
19. 55	53. 0							
21. 0	47. 30							
21. 16	50. 0							
21. 25	49. 30							
21. 43	53. 30							
21. 55	52. 20							
22. 13	53. 15							
22. 36	50. 30							
	***							
23. 46	56. 0							
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 0	21. 55. 35	0. 0	·0989	0. 0	·01688	8. 48	61 ·0	62 ·0
0. 13	57. 10	0. 13	·0979	1. 25	·01610	21. 40	56 ·0	57 ·0
0. 20	56. 0	1. 30	·1012	3. 31	·01408			
0. 46	57. 0	2. 0	·1002	6. 10	·01063			
	***		***		·01135			
2. 19	57. 15	3. 0	·1011	9. 1	·01080			
2. 45	55. 30	3. 30	·1020	11. 16	·01008			
	***	4. 10	·1004	12. 4	·01041			
4. 14	54. 0		***	12. 46	·01038			
4. 30	49. 30	4. 30	·1024	14. 0	·01043			
5. 16	52. 30	5. 0	·1026	17. 25	·01400			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 15		Apr. 15		Apr. 15				
h m	° ′ ″	h m		h m		h m	°	°
6. 17	21. 50. 0	5. 30	·1030	17. 59	·01441			
6. 45	49. 40	6. 30	·1026	20. 30	·01088			
6. 55	50. 30	8. 15	·1019	22. 1	·01775			
7. 16	48. 20	8. 36	·1027	23. 59	·01659			
7. 29	46. 30	9. 0	·1020					
7. 53	48. 30	9. 45	·1025					
8. 3	47. 0	11. 0	·1025					
8. 15	47. 35	11. 24	·1030					
8. 29	43. 15	11. 44	·1042					
	***	12. 32	·1012					
8. 54	46. 0	12. 59	·1031					
	***	13. 15	·1030					
11. 8	46. 0	13. 44	·1030					
12. 15	37. 0	14. 30	·1020					
12. 39	46. 30	16. 9	·1024					
12. 49	45. 35	17. 0	·1028					
	***	17. 47	·1025					
13. 31	50. 30	19. 45	·1016					
14. 0	44. 0	20. 29	·1014					
14. 35	42. 50	21. 6	·0990					
15. 8	44. 30	21. 15	·0998					
15. 18	43. 30	21. 30	·0992					
15. 46	44. 35	21. 45	·0997					
16. 30	42. 30	22. 28	·0986					
	***	22. 46	·0996					
17. 14	47. 30	23. 15	·0984					
	***	23. 30	·0999					
17. 45	45. 30	23. 46	·0992					
18. 0	46. 35	23. 59	·0997					
	***							
19. 2	45. 0							
19. 16	48. 30							
19. 37	45. 30							
	***							
20. 30	48. 35							
	***							
21. 5	45. 10							
21. 15	49. 0							
21. 35	46. 20							
	***							
22. 10	52.. 0							
22. 31	49. 50							
23. 8	54. 0							
23. 25	50. 0							
23. 59	51. 30							
Apr. 16		Apr. 16		Apr. 16		Apr. 16			
0. 0	21. 51. 30	0. 0	·0996	0. 20	·01600	1. 40	61	·5 62 ·0
0. 25	53. 0	1. 5	·1005	2. 31	·01148	3. 40	69	·0 71 ·0
2. 10	55. 0	3. 0	·0992		·01220	9. 40	70	·0 72 ·0
5. 5	50. 0	3. 30	·0998	3. 25	·01163	21. 40	60	·0 61 ·0
7. 16	48. 0	4. 25	·0993		·01220			
8. 10	42. 30	4. 50	·1002	6. 0	·01089			
8. 36	45. 0	5. 15	·0998	6. 59	·01242			
9. 0	41. 10	5. 42	·1005	7. 54	·01450			
10. 32	43. 30		***	9. 32	·01730			
	***	6. 30	·0996	9. 50	·01740			
11. 59	47. 0	7. 0	·1002	10. 31	·01862			
12. 14	49. 0	7. 20	·1012		·01810			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 16		Apr. 16		Apr. 16				
h m	° ′ ″	h m		h m		h m	°	°
12. 39	21. 46. 0	7. 45	·0994	14. 16	·01766			
15. 10	47. 35			18. 55	·01690			
15. 33	48. 35	8. 37	·1004	23. 0	·01640			
16. 4	51. 30	9. 15	·1008	23. 45	·01610			
16. 45	49. 40	10. 15	·0998					
17. 2	47. 30	10. 32	·0995					
17. 45	51. 30	11. 0	·1004					
	(†)	11. 35	·1001					
20. 0	49 10	12. 15	·1013					
	***	13. 15	·1007					
21. 49	45. 20	16. 30	·1018					
22. 45	47. 35	16. 45	·1025					
	***	17. 30	·1016					
23. 29	50. 40	18. 0	·1023					
23. 45	50. 30	18. 30	·1028					
		19. 0	·1020					
		19. 30	·1026					
		21. 30	·1011					
		22. 15	·1009					
		23. 0	·0998					
		23. 46	·0996					
		23. 59	·1002					
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	21. 48. 0	0. 0	·1003	0. 6	·01564	1. 40	63	·5 64 ·3
	***	0. 45	·1009	2. 19:	·01370	3. 40	65	·5 67 ·0
2. 14	54. 0	1. 30	·1012	4. 45:	·00970	9. 40	65	·0 65 ·5
3. 0	51. 0	2. 0	·1000	6. 40	·00914	21. 40	51	·5 52 ·0
3. 40	51. 0	2. 45	·1008	7. 30	·01049			
5. 55	45. 10	3. 18	·1003	10. 30	·01296			
6. 20	45. 30	4. 50	·1018	13. 24	·01681			
6. 59	41. 25	6. 45	·1012		·01590			
7. 35	44. 50	7. 20	·1021	19. 50	·01615			
	***	7. 45	·0988		·01420			
8. 20	43. 25	10. 0	·0992	22. 0	·01405			
9. 51	44. 20	11. 0	·0996	23. 8	·01340			
	***	12. 28	·0995					
11. 50	42. 30	12. 55	·1004					
	***	13. 40	·1002					
12. 45	49. 0	14. 13	·1011					
13. 6	46. 30	14. 55	·1004					
13. 34	45. 30	15. 45	·1010					
	***	16. 10	·1003					
13. 56	46. 35	16. 30	·1008					
	***	17. 35	·1013					
14. 44	44. 30	17. 48	·1009					
15. 15	47. 20	19. 0	·1014					
17. 28	44. 30	20. 0	·1008					
18. 26	46. 35	21. 5	·1006					
18. 55	49. 30	22. 0	·0988					
	***	22. 30	·0986					
20. 34	50. 30	23. 59	·0996					
20. 45	46. 30							
	***							
21. 9	46. 0							
	***							
21. 26	49. 30							
21. 36	48. 10							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 17								
h m	° ′ ″	h m		h m		h m	°	°
22 6	21. 52. 30							
	***							
22. 25	51. 0							
22. 50	51. 40							
	(†)							
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
1. 15	22. 0. 0	0. 15	·0997	0. 12	·01282	1. 40	56 ·0	57 ·0
2. 2	21. 59. 0	0. 50	·0996		***	3. 40	59 ·0	60 ·0
2. 34	22. 1. 0	1. 15	·1007	3. 43	·00852	10. 0	57 ·0	58 ·0
3. 22	21. 56. 0	1. 45	·0995		***	21. 40	47 ·5	48 ·0
4. 58	53. 45	2. 20	·0988	5. 29	·00840			
	(†)	2. 28	·0994		·00946			
7. 3	48. 0	2. 45	·0981	5. 43	·00940			
8. 30	49. 0	3. 3	·0976		·01010			
9. 55	46. 30	3. 30	·0986	8. 6	·01082			
10. 3	47. 40	4. 0	·0997	11. 13	·01249			
10. 30	45. 15	5. 0	·1000	14. 14	·01382			
11. 20	49. 0	5. 5	·0992	15. 45	·01538			
13. 15	49. 30	5. 20	·0996	19. 15	·01500			
13. 46	51. 30	5. 30	·0983	20. 45	·01528			
14. 16	49. 40	5. 47	·0977	22. 0	·01506			
	***	6. 10	·0993	23. 59	·01382			
15. 18	53. 0	7. 30	·0996					
15. 54	49. 35	9. 30	·1000					
16. 14	50. 30	10. 30	·1012					
16. 35	48. 10	11. 0	·1008					
17. 6	51. 0	12. 0	·1010					
	***	13. 0	·1014					
18. 45	49. 30	14. 30	·1018					
	***	15. 55	·1022					
20. 55	46. 0	17. 0	·1018					
	***	18. 0	·1013					
21. 29	46. 40	18. 45	·1022					
23. 59	53. 0	19. 30	·1026					
		20. 15	·1024					
		21. 40	·1006					
		22. 45	·1001					
		23. 59	·1002					
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
0. 0	21. 53. 10	0. 0	·1002	0. 35	·01336	1. 40	52 ·0	53 ·5
1. 20	56. 5	2. 0	·1010	2. 20	·01134	3. 40	57 ·5	58 ·0
2. 2	56. 35	2. 30	·1004	3. 15	·00940	9. 40	64 ·0	64 ·5
5. 0	52. 35	3. 25	·1005		·00980	21. 40	54 ·8	55 ·5
5. 16	50. 35	3. 32	·1013	5. 14	·01026			
9. 5	45. 30	3. 54	·1012		·01160			
9. 41	47. 30	4. 10	·0996	7. 20	·01220			
9. 48	46. 0	4. 30	·0992	8. 28	·01318			
10. 7	46. 0	4. 55	·0998	10. 0	·01400			
10. 44	39. 15	5. 12	·0990	10. 42	·01380			
11. 1	42. 30	5. 45	·0994	14. 29	·01712			
11. 16	42. 30	7. 0	·0986	17. 52	·01708			
12. 20	47. 50	9. 30	·0984	19. 42	·01670			
12. 44	48. 0	10. 17	·0997	23. 59	·01640			
13. 0	51. 30	10. 35	·0992					
13. 30	48. 25	11. 15	·0986					
17. 35	49. 15	12. 0	·0983					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 19		Apr. 19						
h m	° ′ ″	h m		h m		h m	°	°
22. 15	21. 47. 30	12. 25	·0997					
23. 15	49. 10	13. 0	·0998					
23. 59	51. 10	14. 15	·0994					
		15. 46	·1001					
		18. 0	·1006					
		20. 45	·1002					
		22. 15	·0984					
		23. 0	·0978					
		23. 59	·0972					
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 0	21. 51. 20	0. 40	·0973	0. 13	·01572	1. 40	58 ·5	59 ·0
2. 20	55. 0	1. 15	·0980	1. 34	·01488	3. 40	61 ·0	62 ·0
5. 50	52. 45	2. 15	·0986	4. 31	·00948	9. 40	62 ·5	63 ·0
8. 46	48. 35	4. 0	·0990	5. 44	·00951	21. 40	49 ·0	50 ·5
10. 21	46. 10	4. 57	·0998	10. 0	·01180			
10. 44	44. 5	8. 10	·0996	14. 16	·01604			
10. 55	45. 0	9. 0	·0989		·01576			
11. 23	43. 30	10. 30	·0992	19. 10	·01625			
11. 36	44. 30	11. 0	·1009	21. 26	·01581			
12. 15	38. 30	11. 30	·1002	21. 33	·01565			
12. 58	42. 30	12. 20	·1006	23. 59	·01570			
		13. 30	·0998					
13. 49	44. 20	14. 11	·1008					
	***	15. 17	·0995					
14. 35	42. 15	16. 45	·1018					
15. 30	53. 0	17. 45	·1004					
17. 6	48. 25	18. 56	·1014					
18. 0	51. 0	19. 35	·1012					
21. 40	47. 0	20. 0	·1015					
22. 14	46. 0	23. 16	·0992					
23. 59	52. 30							
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 0	21. 52. 40	0. 41	·0972	0. 45	·01561	1. 40	54 ·0	55 ·0
2. 0	56. 0		***	3. 0	·01359	3. 40	60 ·0	61 ·0
7. 20	48. 35	3. 21	·1002	5. 30	·00916	9. 40	55 ·5	56 ·0
7. 40	49. 0	4. 0	·1000	7. 50	·00968	23. 23	47 ·5	47 ·5
8. 19	46. 15	4. 45	·1004	11. 2	·01126			
8. 35	47. 30	7. 10	·1003	15. 14	·01028			
9. 3	45. 35	7. 35	·1006		·01153			
10. 45	48. 40	8. 43	·0998	18. 6	·01562			
11. 35	48. 35	10. 52	·1009	19. 39	·01574			
12. 17	50. 0	11. 10	·1006	23. 59	·01462			
12. 36	49. 40	13. 0	·1022					
12. 55	51. 30	14. 32	·1018					
13. 20	50. 0	15. 15	·1025					
13. 53	50. 20	16. 44	·1017					
14. 15	48. 25	18. 0	·1026					
14. 52	51. 0	19. 59	·1031					
15. 29	48. 10	21. 15	·1025					
16. 26	47. 30	22. 30	·1014					
17. 5	51. 30	23. 55	·1006					
17. 43	50. 0							
20. 4	48. 30							
21. 30	46. 30							
23. 59	52. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Apr. 22 h m	° ′ ″
0. 0	21. 52. 0
1. 57	56. 0
7. 40	48. 0
8. 6	46. 20
10. 36	58. 40
11. 15	48. 0
14. 0	49. 10
14. 15	50. 30
	***
18. 0	48. 10
	***
21. 22	45. 40
22. 8	47. 15
23. 31	52. 15
23. 59	52. 35
Apr. 23	
0. 0	21. 52. 35
1. 45	54. 30
3. 15	54. 25
7. 45	48. 30
8. 15	41. 30
9. 15	48. 35
14. 30	50. 25
17. 30	50. 30
20. 59	46. 0
22. 23	50. 40
23. 59	54. 0
Apr. 24	
0. 0	21. 54. 5
0. 20	54. 5
1. 45	55. 0
7. 0	48. 0
21. 25	47. 0
23. 42	52. 0
23. 49	53, 20
Apr. 25	
0. 0	21. 53. 30
0. 47	56. 0
2. 50	56. 30
5. 45	50. 35
8. 51	49. 25

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 22 h m	
0. 13	·1002
1. 58	·1011
2. 50	·1005
5. 6	·1021
7. 30	·1017
9. 10	·1012
10. 30	·1016
11. 45	·1020
14. 45	·1022
17. 32	·1028
19. 25	·1028
21. 30	·1018
22. 30	·1011
23. 15	·1002
23. 32	·1004
Apr. 23	
0. 0	·1009
1. 30	·1003
2. 35	·1004
3. 40	·0998
5. 15	·1000
7. 31	·1008
8. 0	·0992
8. 18	·1007
9. 15	·0998
11. 20	·1008
17. 25	·1015
19. 15	·1022
22. 0	·1012
23. 59	·1011
Apr. 24	
0. 33	·1005
7. 0	·1000
11. 57	·1008
14. 30	·1011
16. 0	·1015
17. 0	·1012
18. 30	·1018
21. 0	·1015
23. 0	·1013
23. 58	·1011
Apr. 25	
0. 43	·1016
1. 16	·1012
2. 40	·1024
3. 45	·1028
5. 10	·1031

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 22 h m	
0. 16	·01432
3. 28:	·01235
6. 57:	·00817
11. 29	·00870
16. 41	·01245
19. 0	·01405
21. 0	·01438
21. 55	·01427
22. 45:	·01456
23. 59	·01400
Apr. 23	
0. 30	·01278
	***
1. 30	·01158
3. 5	·00815
4. 5	·00867
4. 55	·00844
7. 45	·00944
9. 40	·01014
11. 45	·01130
15. 15	·01506
16. 30	{·01684 ·01595
19. 30	·01603
22. 0	·01564
23. 15	·01527
23. 30	·01506
23. 55	·01454
Apr. 24	
0. 38	·01427
2. 2	·01184
3. 8	{·00884 ·00950
4. 17	·00954
4. 40	·00922
7. 10	·01060
8. 15	·01100
10. 45	·01157
14. 15	·01397
17. 15	·01638
19. 0	·01698
19. 5	·01650
22. 15	·01617
23. 59	·01584
Apr. 25	
0. 30	·01585
1. 16	{·01608 ·01400
2. 40	·01390
7. 35	·01230

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 22 h m	°	°
9. 24	54 ·8	55 ·3
21. 40	47 ·5	48 ·0
Apr. 23		
1. 40	53 ·0	54 ·0
3. 40	56 ·5	57 ·0
9. 40	59 ·5	59 ·5
21. 40	48 ·5	49 ·0
Apr. 24		
1. 40	53 ·0	54 ·0
3. 40	58 ·0	59 ·5
9. 40	61 ·0	62 ·0
21. 40	54 ·5	55 ·0
Apr. 25		
1. 40	54 ·0	55 ·0
3. 40	55 ·5	56 ·5
9. 40	55 ·5	56 ·0
21. 40	47 ·5	49 ·0

Göttingen Mean Solar Time.	Western Declination.
Apr. 25 h m	° ′ ″
9. 9	21. 47. 0
9. 36	48. 55
10. 10:	47. 30
10. 42	49. 30
11. 17	48. 0
11. 59	50. 15
17. 0	49. 15
19. 45	46. 30
21. 45	47. 10
23. 13	51. 25
23. 35	51. 20
Apr. 26	
1. 40	21. 55. 50*
3. 40	53. 40*
9. 40	47. 42*
21. 40	46. 55*
Apr. 27	
0. 0	21. 56. 30
	***
0. 25	57. 35
0. 30	54. 45
1. 8	56. 0
2. 45	55. 0
3. 30	53. 30
4. 25	50. 0
5. 46	48. 5
10. 45	49. 35
12. 0	47. 30
	***
13. 29	50. 0
14. 2	49. 30
14. 25	50. 10
15. 33	49. 30
15. 50	50. 15
18. 6	58. 30
20. 21	44. 25
20. 45	44. 0
22. 18	45. 10
	***
23. 59	53. 10
Apr. 28	
0. 0	21. 53. 20
1. 14	50. 55

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 25 h m	
5. 30	·1024
6. 6	·1030
7. 15	·1026
9. 30	·1026
10. 23	·1030
10. 40	·1040
11. 35	·1033
17. 30	·1038
19. 30	·1038
21. 30	·1028
23. 32	·1024
Apr. 26	
0. 0	·1024
0. 30	·1028
1. 45	·1025
3. 45	·1027
5. 40	·1019
6. 28	·1012
7. 45	·1016
12. 30	·1020
16. 30	·1026
18. 30	·1028
20. 30	·1022
23. 15	·1012
23. 35	·1012
Apr. 27	
0. 0	·1016
2. 0	·1014
3. 15	·1016
4. 0	·1011
6. 20	·1008
10. 30	·1010
11. 15	·1013
12. 45	·1010
14. 0	·1018
15. 15	·1021
17. 0	·1025
20. 0	·1022
21. 0	·1016
22. 0	·1010
23. 0	·1005
23. 30	·1011
23. 45	·1014
Apr. 28	
0. 20	·1011
1. 50	·1020

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 25 h m	
9. 45	·01228
11. 15:	·01250
14. 14	·01492
20. 0	·01470
23. 30	·01456
Apr. 26	
0. 0	·01430
1. 0	·01438
2. 8:	·01260
3. 40	·00883
5. 29	·00877
6. 12	·00910
7. 25	·00910
8. 30:	·00961
10. 30	·00996
11. 30	·01600
16. 0	·01387
18. 15	·01607
19. 32	{·01640 ·01584
22. 0	·01562
23. 20	·01544
Apr. 27	
0. 0	·01540
0. 46	·01520
1. 0	·01460
2. 11:	·01128
4. 14	·00891
10. 47	·01008
14. 50	·01350
17. 32	{·01672 ·01600
23. 59	·01553
Apr. 28	
0. 29	·01546
1. 50	·01644

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 25 h m	°	°
9. 30	51 ·0	52 ·0
11. 30	54 ·5	56 ·0
14. 30	59 ·5	61 ·0
20. 30	51 ·5	52 ·5
Apr. 26		
1. 40	51 ·0	52 ·0
3. 40	54 ·5	56 ·0
9. 40	59 ·5	61 ·0
21. 40	51 ·5	52 ·5
Apr. 27		
1. 40	55 ·0	56 ·0
3. 40	58 ·0	59 ·5
9. 40	61 ·0	61 ·5
21. 40	51 ·0	53 ·0
Apr. 28		
1. 40	54 ·0	55 ·0
3. 40	57 ·0	57 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

April 26. There was no Photographic Trace for the Declination Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 28		Apr. 28		Apr. 28		Apr. 28		
h m	° ′ ″	h m		h m		h m	°	°
2. 24	21. 56. 20	3. 0	·1024	4. 34	·01119	9. 40	57·5	58·0
6. 15	49. 40	3. 30	·1020	6. 28:	·00989	23. 6	50·0	51·0
7. 25	49. 10	5 40	·1019	8. 30	·01006			
10. 35	50. 0	6. 0	·1024	11. 31	·01110			
17. 23	49. 55	7. 0	·1020	17. 1	·01611			
	***	8. 8	·1024		·01540			
20. 30	44. 30	9. 15	·1015	19. 12	·01500			
22. 0	46. 0	10. 45	·1028	20. 42	·01550			
23. 59	51. 0	13. 15	·1030	23. 20	·01471			
		15. 0	·1032					
		18. 15	·1034					
		20. 0	·1028					
		21. 45	·1024					
		23. 13	·1028					
		23. 59	·1022					
Apr. 29		Apr. 29		Apr. 29		Apr. 29		
0. 0	21. 51. 10	0. 15	·1025	0. 0	·01451	9. 10	55·0	54·5
1. 38	55. 20	0. 40	·1017	3. 24	·01460	21. 40	50·0	51·0
3. 26	55. 30	1. 30	·1024	7. 0	·01219			
6. 16	50. 10	2. 25	·1023	10. 30	·01010			
6. 30	50. 30	3. 15	·1036	12. 40	·00986			
7. 39	48. 30	3. 47	·1030	18. 47	·01440			
	***	4. 30	·1034		***			
9. 27	49. 30	4. 50	·1041	20. 30	·01406			
10. 20	49. 0	5. 15	·1038	23. 59	·01269			
11. 8	39. 35	5. 45	·1042					
11. 36	38. 20	5. 55	·1034					
	***	6. 8	·1044					
12. 22	39. 30	7. 0	·1038					
12. 35	38. 20	7. 30	·1035					
13. 30	43. 20	9. 44	·1032					
	***	10. 8	·1037					
15. 7	44. 30	10. 22	·1035					
	***	10. 50	·1045					
16. 24	49. 40	12. 0	·1022					
17. 5	47. 0	13. 0	·1028					
	***	14. 45	·1022					
17. 32	48. 15	16. 15	·1032					
	***	16. 35	·1030					
18. 3	46. 35	20. 30	·1018					
	***	21. 46	·1013					
19. 4	46. 30	22. 30	·1021					
19. 21	45. 0	23. 59	·1021					
19. 45	46. 0							
	***							
20. 17	44. 45							
	***							
22. 31	49. 15							
23. 59	55. 10							
Apr. 30		Apr. 30		Apr. 30		Apr. 30		
0. 0	21. 55. 10	0. 0	·1028	1. 0	·01284	1. 40	52·0	53·0
0. 45	57. 30	1. 0	·1016	2. 45	·01226	3. 40	54·0	54·5
1. 29	57. 30	1. 20	·1024	3. 57:	·01139	9. 40	57·0	57·5
1. 45	55. 50	2. 45	·1027	6. 45	·00845	21. 40	50·0	53·0
2. 27	56. 15	3. 30	·1032	7. 52	·00759			
3. 35	54. 0	3. 33	·1025	8. 0	·00801			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 30		Apr. 30		Apr. 30				
h m	° ′ ″	h m		h m		h m	°	°
4. 0	21. 55. 10	3. 52	·1025	10. 46	·00738			
4. 10	53. 45	4. 0	·1028	11. 24	·00730			
	***	4. 10	·1022	11. 47	·00729			
4. 40	54. 20	4. 45	·1026	12. 1	·00716			
5. 29	52. 0	5. 8	·1015	12. 27	·00752			
6. 45	51. 45	5. 30	·1013	13. 15	·00760			
7. 16	44. 25	5. 44	·1024	13. 44	·00795			
7. 35	44. 50	6. 0	·1028	14. 56	·00901			
8. 7	46. 30	6. 28	·1030	17. 30	·01194			
8. 15	46. 30	6. 40	·1024	20. 44	·01439			
8. 31	48. 35	7. 57	·1024	20. 55	·01384			
10. 14	49. 30	8. 20	·1031	23. 47	·01390			
10. 30	48. 0	8. 28	·1025					
10. 55	56. 0	9. 30	·1028					
11. 15	50. 40	9. 58	·1016					
11. 44	33. 55	10. 13	·1024					
12. 9	34. 0	10. 29	·1023					
12. 30	49. 20	10. 40	·1011					
12. 44	48. 0	10. 51	·1023					
13. 0:	49. 5	11. 15	·1012					
13. 25	45. 20	11. 28	·0996					
13. 44	44. 20	11. 58	·1012					
14. 22	50. 40	12. 15	·1004					
	***	12. 45	·1002					
15. 8	44. 10	13. 0	·1013					
15. 31	44. 0	13. 20	·1009					
	***	13. 47	·1014					
16. 15	46. 45	14. 42	·1033					
16. 37	46. 0	14. 57	·1029					
16. 57	47. 15	15. 0	·1023					
17. 22	46. 10	16. 0	·1019					
18. 0	52. 0	17. 0	·1023					
18. 15	50. 45	17. 45	·1014					
18. 44	52. 25	18. 30	·1012					
18. 50	51. 0	19. 3	·1008					
19. 5	54. 25	19. 30	·1014					
19. 44	48. 25	20. 0	·1020					
20. 15	49. 0	20. 20	·1018					
20. 35	52. 0	20. 25	·1021					
21. 0	50. 0	21. 0	·1013					
22. 0	51. 10	21. 40	·1010					
22. 30	54. 20	23. 0	·1016					
23. 59	58. 0	23. 45	·1017					
May 1		May 1		May 1		May 1		
0. 16	21. 59. 0	0. 22	·1008	0. 0	·01391	1. 40	51·5	52·0
	***	0. 30	·1010	2. 7	·01406	3. 40	53·5	54·0
1. 0	59. 25	0. 35	·1005	6. 0	·01139	9. 40	55·5	56·0
1. 45	56. 10	0. 50	·1008	7. 17	·01022	21. 40	50·0	51·5
4. 30	52. 0	1. 23	·0998	10. 6	·00848			
4. 45	52. 30	1. 53	·1015	11. 45	·00823			
5. 31	52. 5	2. 17	·1008	13. 59	·00960			
	***	2. 40	·1010	19. 13	·01536			
6. 45	48. 10	2. 55	·1004	19. 29	·01465			
8. 0	50. 30	3. 18	·1006	21. 46	·01448			
10. 20	50. 20	3. 27	·1012	22. 47:	·01354			
11. 4	47. 30	3. 50	·1006	23. 45	·01308			
11. 27	53. 25	4. 25	·1010					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
May 1	
h m	° ′ ″
11. 58	21. 45. 0
	***
12. 30	46. 30
13. 5	51. 35
13. 20	51. 30
13. 45	46. 25
14. 21	47. 10
15. 0	53. 55
	***
16. 30	48. 30
16. 46	49. 30
17. 15	48. 0
18. 7	46. 30
18. 16	44. 30
18. 40	44. 35
18. 47	47. 25
19. 34	46. 20
19. 47	47. 35
	***
20. 24	45. 25
	***
23. 0	55. 30
23. 59	56. 55
May 2	
0. 0	21. 56. 55
1. 10	57. 30
2. 45	57. 0
3. 0	55. 0
3. 16	55. 20
4. 17	51. 0
5. 8	51. 0
6. 26	49. 20
7. 18	41. 0
7. 44	40. 35
7. 59	44. 0
8. 14	41. 55
8. 36	42. 0
8. 58	44. 20
	***
10. 45	43. 0
11. 0	41. 0
11. 30	48. 35
	***
12. 0	51. 50
13. 1	47. 10
13. 34	50. 30
14. 8	48. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 1	
h m	
4. 45	·1016
5. 15	·1014
5. 45	·1016
6. 0	·1011
6. 10	·1013
6. 20	·1010
7. 3	·1019
8. 50	·1014
10. 3	·1019
10. 8	·1017
10. 38	·1021
11. 10	·1016
11. 12	·1021
13. 0	·1016
13. 22	·1026
13. 55	·1024
14. 40	·1012
14. 50	·1016
15. 10	·1011
15. 55	·1023
16. 20	·1021
16. 40	·1017
17. 38	·1022
18. 0	·1019
18. 12	·1019
18. 31	·1008
18. 57	·1016
19. 55	·1016
20. 0	·1018
20. 20	·1012
22. 41	·1005
22. 52	·0998
23. 28	·0997
May 2	
0. 0	·0995
1. 0	·0993
	***
2. 39	·1005
2. 48	·0996
3. 3	·0996
3. 25	·1004
3. 40	·0990
	***
4. 12	·1006
4. 25	·0993
4. 42	·0988
5. 15	·0993
5. 18	·1004
5. 27	·1000
5. 33	·1004
6. 15	·0998
6. 30	·0986
6. 55	·0998
7. 0	·0994
7. 22	·1014
7. 40	·1012
7. 58	·0991

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 2	
0. 0	·01282
0. 41	·01216
2. 14	·00910
	***
5. 0	·00928
	***
7. 25	·01140
8. 37	·01241
12. 39	·01394
14. 36	·01641
	·01570
21. 40	·01568
	·01426
22. 1	·01420
	·01360
23. 15	·01259
23. 59	·01163

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 2		
1. 40	56 ·0	57 ·0
3. 40	59 ·0	60 ·5
9. 40	59 ·0	59 ·5
21. 40	48 ·5	49 ·0

Göttingen Mean Solar Time.	Western Declination.
May 2	
h m	° ′ ″
14. 22	21. 51. 30
14. 55	51. 30
15. 20	54. 0
16. 16	50. 0
17. 30	48. 35
18. 45	46. 50
19. 18	48. 30
20. 30	44. 50
21. 30	46. 30
23. 30	55. 40
23. 45	56. 0
May 3	
0. 30	21. 55. 45
1. 28	58. 0
2. 37	57. 30
3. 30	54. 35
4. 15	55. 10
6. 51	48. 0
8. 30	47. 5
9. 15	37. 40
9. 36	43. 0
9. 45	41. 25
10. 1	43. 30
10. 15	42. 30
11. 9	46. 0
12. 15	45. 5
13. 1	48. 35
	***
15. 17	45. 10
16. 0	48. 55
16. 30	48. 0
17. 23	48. 30
18. 6	47. 15
18. 52	51. 0
21. 5	45. 35
22. 1	46. 0
23. 59	53. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 2	
h m	
8. 12	·0997
8. 33	·0998
	***
9. 12	·0996
10. 30	·0994
10. 42	·0995
10. 53	·0993
11. 35	·0988
12. 17	·1011
12. 50	·1001
13. 30	·1011
13. 40	·1008
13. 50	·1010
14. 14	·1009
14. 18	·1014
15. 25	·1004
15. 46	·1011
16. 33	·1008
17. 25	·1014
19. 0	·1013
19. 30	·1009
20. 0	·1010
20. 49	·1014
20. 54	·1010
21. 0	·1011
22. 15	·1008
23. 3	·1001
May 3	
0. 7	·0991
0. 30	·0989
0. 50	·0997
2. 15	·0995
2. 46	·0987
3. 17	·0996
3. 25	·0991
4. 32	·0998
4. 45	·0992
6. 32	·0998
7. 0	·1005
	***
8. 40	·1004
8. 48	·0998
9. 4	·0998
9. 20	·1020
9. 42	·1004
10. 0	·1007
10. 15	·1000
11. 15	·0996
11. 42	·1004
13. 0	·1015
15. 30	·1013
16. 0	·1017
17. 15	·1017
	***
17. 48	·1011
18. 30	·1010
19. 45	·1017

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 3	
0. 45	·01080
2. 0	·00830
3. 31	·00928
	·01000
5. 6	·00958
8. 2	·01110
9. 40	·01219
14. 11	·01662
14. 16	·01621
19. 22	·01582
22. 13	·01526
	·01430
23. 59	·01471

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 3		
1. 40	54 ·5	56 ·5
3. 40	58 ·0	59 ·5
9. 40	60 ·0	60 ·5
21. 40	49 ·5	50 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 3 h m		h m		h m	°	°
		22. 25	·1009					
		23. 49	·0994					
May 4		May 4		May 4		May 4		
0. 0	21. 53. 35	0. 26	·0996	0. 45	·01460	1. 40	52 ·0	53 ·0
0. 53	52. 55	2. 0	·0998	1. 45	·01460	3. 40	54 ·0	55 ·0
1. 33	54. 35	3. 0	·1003	3. 30	·01342	9. 40	54 ·0	55 ·5
3. 27	56. 0	3. 12	·1002	6. 25	·01183	21. 40	45 ·0	46 ·5
5. 28	53. 25	3. 30	·1006	8. 27	·01170			
6. 45	48. 20	4. 2	·1008	11. 40	·01218			
8. 4	48. 15	4. 58	·1007	14. 48	·01488			
	***	5. 17	·1012		·01510			
11. 57	47. 40	5. 46	·1009	17. 28	·01526			
	***	6. 34	·1014		·01460			
12. 45	49. 20	6. 55	·1019	19. 43	·01485			
13. 3	48. 40	7. 30	·1017	23. 59	·01439			
14. 29	50. 35	7. 42	·1019					
	***	8. 22	·1014					
16. 41	49. 25	10. 10	·1016					
17. 50	50. 50	10. 18	·1019					
21. 26	45. 10	11. 0	·1016					
23. 59	52. 0	11. 7	·1020					
		11. 18	·1018					
		12. 10	·1019					
		12. 15	·1022					
		12. 30	·1021					
		14. 0	·1022					
		16. 15	·1028					
		18. 40	·1025					
		20. 15	·1025					
		21. 40	·1013					
		23. 59	·1009					
May 5		May 5		May 5		May 5		
0. 0	21. 52. 0	0. 0	·1009	0. 10	·01418	1. 40	51 ·0	52 ·5
1. 46	56. 30	2. 30	·1018	1. 19	·01362	3. 40	55 ·0	56 ·0
2. 32	56. 30	3. 3	·0999	3. 43	·00900	9. 40	59 ·5	59 ·5
3. 46	54. 0	3. 45	·1012	3. 47	·00914	22. 56	51 ·0	52 ·5
5. 30	54. 20	4. 15	·1007	7. 0	·00905			
9. 7	48. 30	4. 25	·1013	10. 47	·00990			
11. 30	47. 0	5. 20	·1013	16. 0	·01506			
12. 52	48. 15	5. 32	·1028	17. 16	·01562			
16. 30	47. 35	6. 4	·1006	20. 47	·01625			
16. 50	48. 55	6. 11	·1009		·01530			
18. 50	45. 5	6. 26	·1010	23. 13	·01472			
19. 23	43. 30	6. 33	·1006					
	***	7. 12	·1015					
21. 0	44. 0	10. 0	·1007					
22. 30	50. 0	12. 25	·1006					
23. 15	51. 10	16. 15	·1016					
22. 59	52. 0	17. 20	·1022					
		19. 30	·1022					
		22. 30	·1005					
		23. 59	·1003					
May 6		May 6		May 6		May 6		
0. 0	21. 52. 5	0. 0	·1002	0. 0	·01441	9. 43	58 ·5	59 ·0
1. 0	54. 55	0. 35	·1008	4. 4	·01171	21. 40	54 ·5	55 ·2

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 6		May 6		May 6				
h m	° ′ ″	h m		h m		h m	°	°
1. 37	21. 55. 0	1. 12	·1007	7. 6	·00880			
2. 30	57. 0	1. 20	·1010	8. 1	·00918			
	***	1. 37	·1002	10. 46	·00838			
3. 46	56. 30	2. 17	·1010	11. 47	·00820			
	***		***	12. 0	·00826			
4. 15	55. 0	3. 33	·1007	12. 28	·00740			
	***	3. 50	·1014	14. 16	·00828			
4. 46	55. 55	4. 3	·1009	16. 44	·00974			
5. 1	54. 25	4. 30	·1012	18. 58	·01178			
5. 20	54. 0	4. 55	·1009	20. 46	·01281			
	***	5. 9	·1012	23. 59	·01280			
6. 35	51. 0	5. 15	·1008					
6. 51	51. 30	6. 23	·1016					
7. 30	48. 25	6. 30	·1013					
7. 53	39. 30	7. 2	·1020					
8. 31	45. 50	7. 45	·1013					
9. 0	44. 40	8. 3	·1024					
11. 45	48. 30	8. 30	·1022					
12. 4	53. 0	8. 40	·1011					
12. 50	44. 50	9. 0	·1011					
13. 6	45. 30	9. 30	·1000					
13. 30	44. 30	10. 14	·1008					
13. 54	41. 20	11. 47	·1007					
14. 20	44. 0	12. 7	·1028					
14. 46	49. 0	12. 15	·1023					
15. 28	49. 0	12. 45	·1015					
15. 46	50. 35	12. 55	·1019					
16. 5	48. 30	13. 30	·1017					
17. 45	45. 0	13. 53	·1010					
18. 0	45. 10	14. 2	·1011					
18. 50	43. 30	15. 10	·1008					
19. 1	44. 45	15. 15	·1015					
	***	16. 0	·1011					
19. 33	43. 30	16. 40	·1016					
20. 20	45. 0	18. 55	·1015					
21. 16	45. 0	19. 0	·1012					
23. 59	50. 40	20. 0	·1013					
		23. 20	·1004					
May 7		May 7		May 7		May 7		
0. 0	21. 50. 45	0. 15	·1003	0. 14	·01304	1. 40	57 ·0	58 ·5
1. 0	52. 30	2. 0	·1002	1. 40	·01256	3. 40	59 ·6	60 ·0
4. 20	50. 0	3. 41	·1006	2. 59	·01145	9. 40	59 ·0	60 ·0
	***	3. 48	·1011	5. 35	·00818	21. 40	53 ·0	54 ·5
8. 40	47. 35	4. 8	·1012		·00910			
9. 30	40. 20	4. 20	·1022	7. 30	·00846			
10. 15	45. 0	5. 3	·1013	11. 30	·01100			
10. 28	44. 0		***	13. 20	·01247			
10. 45	46. 35	6. 30	·1019	13. 40	·01212			
11. 5	45. 30	6. 42	·1026	16. 30	·01297			
11. 46	48. 20	7. 15	·1016	19. 0	·01370			
12. 7	47. 5	8. 30	·1016	21. 30	·01482			
	***	9. 0	·1010	23. 45	·01537			
13. 15	48. 0	9. 47	·1017					
14. 0	49. 35	10. 22	·1007					
14. 55	48. 40	10. 37	·1013					
15. 30	46. 30	11. 13	·1008					
16. 53	49. 0	12. 37	·1007					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
May 7	
h m	° ′ ″
17. 36	21. 46. 30
18. 0	45. 30
	***
20. 48	45. 30
23. 59	53. 5
May 8	
0. 0	21. 53. 10
1. 31	58. 35
	***
2. 35	56. 40
3. 16	59. 0
3. 30	56. 10
3. 40	57. 30
	***
4. 25	57. 0
	***
5. 13	53. 20
5. 31	55. 30
	***
6. 21	49. 0
6. 31	51. 35
7. 5	48. 50
	***
7. 25	49. 50
	***
8. 20	45. 0
8. 41	43. 35
	***
9. 1	38. 0
9. 45	44. 0
10. 8	45. 0
10. 15	44. 0
10. 29	49. 0
10. 40	38. 20
11. 0	45. 40
11. 29	41. 25
11. 42	43. 30
11. 50	41. 25
12. 30	48. 0
12. 45	45. 30
13. 16	49. 35
13. 36	47. 0
14. 15	45. 5
14. 36	45. 40
15. 46	43. 15
16. 4	44. 25
16. 30	43. 30
	***
17. 7	45. 5
18. 2	50. 35
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 7	
h m	
13. 27	·1016
14. 25	·1015
15. 33	·1015
16. 0:	·1013
16. 20	·1010
16. 48	·1013
17. 8	·1019
18. 30	·1020
20. 30	·1010
21. 30	·1002
22. 18	·0996
22. 45	·1000
23. 58	·1005
May 8	
0. 10	·1005
1. 15	·1007
1. 32	·1008
2. 5:	·1004
2. 50	·1015
3. 15	·1014
3. 20	·1019
3. 32	·0996
3. 38	·1004
4. 3	·1012
4. 40	·1006
4. 50	·1012
5. 3	·1013
5. 10	·1019
5. 25	·1019
5. 34	·1010
6. 5	·1019
6. 15	·1014
6. 30	·1014
6. 47	·1001
	***
7. 25	·1020
7. 55	·1001
8. 15	·1008
	***
8. 50	·1005
9. 3	·1012
9. 13	·1000
9. 55	·0994
10. 30	·1024
10. 45	·1043
11. 20	·0999
12. 47	·1000
12. 55	·1006
13. 28	·1014
14. 15	·1009
15. 20	·1008
16. 55	·1008
18. 42	·1016
18. 55	·1019
20. 30	·1005
21. 40	·0998
22. 45	·0993

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
May 8	
h m	
0. 25	·01536
1. 30	·01615
3. 20	·01600
6. 0	·01480
9. 15	·01292
10. 30	·01230
11. 15:	·01172
14. 0	·01337
15. 58	·01634
18. 30	·01600
18. 46	·01562
22. 15	·01537
23. 55	·01546

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 8		
1. 40	55 ·0	56 ·0
3. 40	56 ·0	57 ·5
9. 40	57 ·5	58 ·0
21. 40	49 ·5	50 ·0

Göttingen Mean Solar Time.	Western Declination.
May 8	
h m	° ′ ″
18. 59	21. 46. 35
19. 58	48. 15
	***
21. 15	47. 50
23. 44	55. 30
May 9	
0. 0	21. 55. 30
	***
1. 45	56. 40
4. 10	50. 0
	***
8. 35	47. 20
9. 0	43. 55
10. 0	42. 30
10. 30	44. 0
	***
11. 30	47. 5
12. 0	49. 40
12. 20	48. 15
12. 30	49. 0
13. 29	45. 20
14. 10	44. 55
14. 45	42. 0
15. 22	41. 20
16. 5:	45. 10
16. 31	44. 30
18. 15	43. 0
21. 55	48. 20
23. 45	54. 15
May 10	
0. 0	21. 54. 30
0. 36:	57. 0
1. 16	56. 30
	***
1. 45	57. 0
	***
2. 30	53. 50
3. 35	52. 0
4. 0	52. 35
4. 29	51. 0
5. 0	53. 0
5. 20	51. 30
5. 50	51. 35
6. 20	47. 30
8. 55	49. 20
10. 30	50. 5
	***
12. 30	48. 5
12. 51	46. 0
13. 30	38. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 8	
h m	
23. 36	·0994
May 9	
0. 0	·0994
1. 10	·0994
1. 40:	·1002
2. 0	·0999
5. 2	·1000
5. 25	·0990
6. 13	·0993
6. 47	·1005
7. 0	·1005
7. 12	·1007
7. 29	·1001
7. 42	·0991
8. 8	·0993
8. 15	·0992
9. 8	·0998
9. 17	·1002
9. 45	·1003
10. 0	·0998
10. 50	·0991
13. 0	·1002
13. 28	·1010
14. 22	·1002
14. 50	·1006
16. 6	·1004
16. 15	·1006
16. 42	·1006
17. 47	·1012
20. 25	·0997
23. 50	·0984
May 10	
0. 8	·0987
0. 57:	·0996
1. 16	·0991
1. 25	·0996
1. 38	·0993
1. 45	·0997
1. 54	·0991
2. 27	·0993
2. 50	·1006
3. 17	·1007
3. 25	·1013
3. 32	·1008
4. 30	·1016
5. 35	·1013
6. 30	·1014
7. 30	·1019
8. 15	·1017
8. 55	·1009
9. 3	·1010
9. 21	·1007

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
May 8	
h m	
May 9	
0. 0	·01517
1. 0	·01487
3. 45	·01048
6. 15	·00965
8. 0	·00984
9. 44	·00950
9. 47	·00900
11. 30	·00900
14. 30	·01074
18. 15	·01100
22. 0	·01016
23. 35	·00920
May 10	
0. 0	·00942
2. 0	·00850 } ·00917
3. 0	·00940
6. 0	·00862
10. 0	·00905
12. 0	·00983
13. 0	·01030
16. 0	·01360
18. 30	·01615
20. 45:	·01698
22. 15	·01674
23. 15:	·01700
23. 35	·01686

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 9		
1. 40	54 ·0	55 ·0
3. 40	57 ·5	57 ·5
9. 40	58 ·5	59 ·0
21. 40	56 ·0	56 ·8
May 10		
1. 40	59 ·0	61 ·0
3. 40	61 ·7	62 ·5
9. 40	63 ·0	63 ·0
21. 40	56 ·5	57 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
May. 10		May. 10						
h m	° ′ ″	h m		h m		h m		
13. 48	21. 42. 0	9. 30	·1010					
14. 0	41. 15	10. 33	·1011					
14. 36	47. 0	10. 50	·1009					
	***	12. 16	·1014					
15. 33	47. 25	12. 25	·1012					
16. 5	46. 5	12. 43	·1010					
16. 15	48. 10	12. 57	·1020					
16. 55	43. 20	13. 8	·1016					
17. 15	44. 50	13. 13	·1019					
17. 26	44. 0	13. 26	·1010					
	***		***					
18. 37	48. 40	14. 30	·1002					
	***	15. 30	·1007					
19. 46	44. 55	16. 13	·1013					
	***	16. 45	·1000					
20. 39	45. 10	17. 0	·1015					
	***	17. 38	·1098					
21. 29	49. 0	17. 43	·1003					
21. 45	47. 50	17. 55	·1098					
22. 8	48. 30	18. 5	·1083					
	***	18. 20	·1093					
22. 46	54. 30	19. 2	·1093					
	(†)	20. 10	·1006					
		20. 22	·1004					
		21. 3	·1013					
		21. 51	·1014					
		22. 30:	·1091					
		22. 55	·1093					
			(†)					
May 11		May 11		May 11		May 11		
0. 49	21. 58. 40	0. 46	·0987	1. 40	·01663*	1. 40	59 ·0	60 ·0
1. 7	58. 0	1. 57	·0984	3. 40	·01489*	3. 40	61 ·0	61 ·5
1. 31	58. 40	2. 17	·0990	9. 40	·01041*	9. 40	62 ·0	62 ·5
1. 49	57. 10	3. 30	·0991	21. 40	·01595*	21. 40	52 ·5	53 ·0
5. 38	51. 30	3. 43	·0995					
5. 55	51. 45		***					
7. 41	48. 35	5. 33	·0994					
8. 20	42. 20	5. 47	·1005					
8. 40	43. 55	6. 7	·0992					
9. 0	41. 0	6. 40	·1003					
9. 28	44. 20	6. 45	·1001					
9. 44	44. 0	6. 52	·1012					
10. 30	48. 5	7. 10	·1006					
10. 51	48. 0	7. 37	·1006					
11. 9	49. 15	7. 45	·0997					
	***	8. 5	·0990					
12. 1	49. 30	8. 20	·0994					
12. 15	51. 0	8. 32	·1002					
12. 31	51. 20	8. 50	·0988					
13. 6	48. 25		***					
13. 30	48. 35	9. 15	·1000					
13. 50:	50. 30	10. 18	·1000					
14. 13	48. 35	10. 25	·0995					
	***	11. 0	·1004					
14. 30	49. 40	11. 30	·1004					
14. 59	44. 30	12. 20	·1007					
	***	13. 50	·1011					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
May 11		May 11						
h m	° ′ ″	h m		h m		h m		
15. 25	21. 49. 0	14. 20	·1007					
15. 51	48. 0	14. 30	·1013					
16. 35	49. 50	15. 5	·1013					
16. 45	48. 35	15. 25	·1005					
16. 56	49. 25	15. 47	·1010					
17. 15	48. 0	16. 55	·1009					
17. 45	51. 5	17. 55	·1013					
18. 4	49. 10	20. 25	·1010					
18. 41	49. 35	22. 0	·1006					
19. 16	47. 10	22. 48	·0997					
	**	23. 20	·0996					
22. 16	49. 5	23. 41	·0992					
22. 46	51. 50	23. 59	·0994					
23. 3	51. 15							
23. 40	54. 30							
23. 59	53. 40							
May 12		May 12		May 12		May 12		
0. 0	21. 53. 40	0. 0	·0993	0. 15	·01568	1. 40	54 ·0	55 ·0
	***	0. 45	·0997	2. 30	·01564	3. 40	56 ·5	56 ·5
1. 31	54. 45	1. 20	·1002	4. 30:	·01440	9. 40	57 ·0	58 ·0
1. 45	45. 15	2. 31	·1010	5. 35:	·01266	23. 26	49 ·0	50 ·0
2. 21	54. 50	2. 40	·1006	6. 35	·01198			
2. 40	53. 20	4. 25	·1012	10. 0	·01057			
6. 25	50. 10	5. 40:	·1005	11. 30	·01083			
7. 26	50. 0	5. 59	·1016	14. 0:	·01187			
8. 40	44. 30	6. 17:	·1004	17. 14	·01610			
9. 21	48. 0	6. 43	·1023		·01533			
10. 0	46. 0	6. 55	·1004	18. 0	·01520			
10. 31	48. 30	8. 10	·1009	18. 55	·01540			
	***	8. 15	·1005	19. 15	·01500			
11. 16	48. 5	9. 3	·1013	21. 0	·01508			
11. 55	46. 10	10. 5	·1008	23. 25	·01511			
12. 9	48. 35	10. 31	·1012					
12. 24	47. 0	11. 2	·1009					
12. 34	48. 0	11. 10	·1014					
13. 23	45. 5	11. 20	·1012					
13. 50	51. 10	11. 35	·1021					
14. 15	53. 40	11. 50	·1025					
14. 46	46. 30	12. 0	·1022					
15. 8	46. 0	12. 10	·1026					
15. 31	49. 10	12. 50	·1008					
16. 15	48. 30	13. 57	·1011					
16. 40	47. 0	14. 42	·1029					
	***	15. 32	·1010					
17. 30	48. 40	16. 0	·1014					
17. 45	51. 30		***					
18. 2	50. 10	17. 25	·1012					
	***	18. 5	·0997					
19. 0	50. 30	19. 45	·1013					
19. 30	47. 30	21. 0	·1007					
20. 56	44. 45	22. 50	·0997					
	***	23. 15	·1002					
23. 59	52. 35	23. 27	·0995					
May 13		May 13		May 13		May 13		
0. 0	21. 52. 40	0. 0	·1006	0. 10	·01480	11. 7	50 ·5	50 ·0
	***		***	2. 44	·01484	21. 40	49 ·0	51 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 13		May 13		May 13				
h m	° ′ ″	h m		h m		h m	°	°
0. 47	21. 55. 10	0. 50:	·1007	4. 0	·01463			
1. 45	55. 25		***	4. 33	·01500			
2. 23	54. 0	1. 33	·1027	8. 55	·01348			
	***		***	9. 33	·01340			
3. 29	54. 10	2. 35	·1030	10. 2	·01305			
3. 45	52. 20	2. 50	·1036	11. 55	·01223			
4. 8	41. 15	3. 7	·1025	17. 26	·01290			
4. 22	41. 5	3. 20	·1032	17. 53	·01286			
4. 34	45. 0	3. 32	·1044	21. 13	·01306			
5. 29	48. 35	4. 0	·1012	23. 59	·01210			
6. 29	49. 30	4. 12	·1026					
7. 20	49. 15	4. 19	·1044					
7. 51	50. 30		***					
8. 54	49. 35	4. 40	·1049					
9. 21	50. 30	5. 12	·1026					
14. 45	48. 50	5. 42	·1032					
14. 51	49. 50	6. 0	·1024					
15. 14	48. 45	6. 30	·1033					
15. 30	50. 5	6. 35	·1027					
	***	6. 50	·1041					
15. 47	50. 10	7. 7	·1031					
16. 1	48. 20	7. 33	·1026					
	***	7. 42	·1032					
16. 35	48. 40	8. 0	·1030					
16. 55	50. 0	8. 4	·1034					
	***	8. 33	·1026					
17. 28	48. 20	9. 35	·1029					
	***	13. 20	·1030					
19. 0	48. 40	13. 25	·1026					
19. 33	45. 30		***					
20. 32	46. 0	16. 40	·1024					
	***	19. 5	·1020					
21. 51	47. 45	22. 40	·0997					
23. 59	54. 10	23. 50	·1006					
May 14		May 14		May 14		May 14		
0. 0	21. 54. 15	0. 58	·1007	1. 15	·01198	1. 40	52 ·0	53 ·0
0. 43	58. 15		***	2. 6	·01150	3. 40	54 ·5	55 ·0
1. 0	58. 0	1. 42	·1000	3. 0	·01044	9. 40	57 ·0	57 ·0
1. 11	56. 40		***		***	21. 40	49 ·0	50 ·0
1. 25	57. 5	2. 38	·1018	5. 12	·00754			
1. 50	55. 20	3. 8	·1002	8. 30	·00766			
2. 5	56. 50	3. 19	·1021	11. 15	·00720			
2. 53	56. 0	3. 29	·1014	13. 36:	·00780			
3. 7	53. 30		***	15. 0	·00862			
3. 16	53. 0	4. 39	·1008	18. 30	·01254			
3. 30	50. 25	4. 52	·1026	21. 15	·01526			
	***		***	21. 35	·01520			
4. 20	52. 55	6. 0	·1012	22. 0	·01454			
	***	6. 14	·1022	23. 59	·01472			
4. 45	52. 30	6. 30	·1009					
	***	6. 50	·1012					
5. 56	50. 10	7. 7	·1012					
6. 46	50. 20	7. 22	·1006					
7. 30	46. 40	8. 15	·1017					
	***	8. 33	·1008					
8. 1	49. 0	8. 55	·1010					
8. 15	48. 30	9. 5	·1008					
May 14		May 14						
h m	° ′ ″	h m		h m		h m	°	°
11. 30	21. 50. 5	10. 0	·1011					
12. 5	48. 25		***					
13. 28	49. 55	12. 5	·1012					
14. 10	49. 50	12. 32	·1014					
14. 44	48. 35		***					
15. 30	50. 0	14. 20	·1016					
	***	15. 10	·1013					
17. 50	48. 0	15. 32	·1016					
	***	17. 42	·1018					
18. 14	51. 10	18. 0	·1017					
18. 40	49. 5	18. 10	·1010					
18. 49	49. 0	19. 20	·1013					
19. 5	47. 45	19. 30	·1018					
19. 29	49. 40	20. 10	·1014					
19. 45	47. 15	20. 17	·1016					
	***	21. 28	·1007					
20. 49	46. 10	22. 3	·0966					
21. 11	49. 0		***					
	***	22. 46	·1004					
23. 0	49. 50	22. 59	·0998					
23. 44	52. 0	23. 3	·1003					
		23. 42	·1002					
May 15		May 15		May 15		May 15		
0. 15	21. 53. 0	0. 12	·0997	0. 15	·01462	1. 40	52 ·0	53 ·0
1. 44	55. 40	1. 18	·1002	2. 6	·01440	3. 40	54 ·0	55 ·0
3. 19	56. 0	2. 25	·0994	3. 15	·01404	9. 40	55 ·5	57 ·0
3. 39	53. 5	2. 36	·1002	6. 30:	·01132	21. 40	52 ·0	53 ·0
4. 2	53. 30	2. 52	·0997	11. 15	·00917			
4. 14	52. 25	3. 28	·1007	12. 15	·00918			
	***	3. 40	·1005	15. 45	·01017			
4. 36	52. 35	4. 5	·1018	19. 15	·01284			
4. 50	50. 40	4. 22	·1006	19. 20	·01250			
5. 16	42. 0	4. 55	·1013	22. 0	·01300			
5. 45	48. 0	5. 3	·1012	23. 45	·01278			
6. 0	47. 30	5. 16	·1037					
6. 29	48. 35	5. 32	·1036					
8. 15	49. 20	5. 56	·1010					
8. 54	48. 5	6. 10	·1008					
9. 4	48. 30	6. 31	·1015					
9. 38	45. 35	6. 45	·1011					
10. 8	48. 35	8. 2	·1011					
	***	8. 20	·1006					
11. 16	48. 30	8. 38	·1013					
11. 43	50. 35	9. 36	·1004					
12. 0	49. 50	9. 46	·1012					
12. 14	50. 0		***					
12. 39	48. 20	10. 52	·1004					
13. 0	50. 10	11. 5	·1011					
13. 35	48. 40	11. 26	·1007					
13. 46	48. 0	12. 30	·1009					
14. 30	51. 0	12. 43	·1017					
15. 0	51. 0	13. 42	·1007					
15. 21	55. 40	15. 20	·1020					
16. 8	44. 55	15. 30	·1024					
	***	17. 12	·1005					
18. 15	46. 0	18. 0	·1007					
	***	19. 35	·1005					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 15		May 15						
h m	° ′ ″	h m		h m		h m	°	°
20. 54	21. 44. 20	21. 10	·0996					
	***	22. 0	·0987					
22. 46	49. 30	22. 15	·0980					
23. 15	49. 0	22. 54	·0979					
23. 59	50. 35		***					
		23. 45	·0992					
May 16		May 16		May 16		May 16		
0. 0	21. 50. 40	0. 0	·0991	0. 0	·01280	1. 40	54 ·0	54 ·5
2. 23	55. 20	1. 45	·1004	2. 0	·01240	3. 40	56 ·0	57 ·0
4. 35	51. 0		***	6. 0	·00908	9. 40	57 ·0	57 ·5
4. 49	51. 15	4. 18	·1009	7. 30	·00800	21. 40	51 ·5	52 ·0
5. 5	49. 10	4. 36	·0996	11. 40	·00790			
	***	4. 55	·0997	14. 0	·00903			
5. 45	49. 40	5. 2	·1002	17. 45	·01286			
10. 37	49. 55	5. 18	·0995	20. 50	·01582			
11. 31	46. 30	5. 30	·1004	21. 30	·01517			
11. 48	46. 0	5. 42	·0998	23. 59	·01417			
12. 35	49. 10	6. 2	·0997					
13. 40	50. 0	8. 12	·1002					
	***	10. 47	·1002					
16. 6	49. 5	11. 5	·1006					
16. 30	50. 0	11. 27	·1000					
	***	17. 45	·1014					
18. 7	48. 25	18. 15	·1011					
	***	18. 25	·1004					
20. 17	51. 15	18. 45	·1005					
21. 0	49. 0	19. 40	·0991					
21. 45	48. 40		***					
23. 59	55. 30	20. 45	·0996					
		22. 15	·0987					
			***					
		23. 10	·0975					
			***					
		23. 59	·0980					
May 17		May 17		May 17		May 17		
0. 0	21. 56. 0	0. 0	·0981	0. 30	·01360	1. 40	55 ·0	56 ·5
0. 35	57. 5		***	2. 30	·01048	3. 40	58 ·5	59 ·5
	***	2. 17	·0988	5. 12	·00902	9. 40	60 ·0	61 ·0
2. 36	55. 40		***		·00940	21. 40	54 ·0	54 ·5
3. 20	53. 0	2. 58	·0975	4. 17	·00880			
5. 15	50. 55	3. 20	·0991	7. 15	·00860			
6. 29	46. 30	4. 15	·0997	11. 0	·00838			
8. 0	48. 15	4. 26	·0993	12. 20	·00860			
13. 51	49. 55	5. 15	·1004	15. 40	·01127			
14. 1	51. 50	5. 53	·0986	20. 0	·01665			
14. 21	52. 0		***		·01597			
	***	6. 43	·1000	22. 15	·01638			
15. 14	48. 35	7. 6	·0995		·01434			
16. 44	48. 30	7. 25	·1000	23. 59	·01552			
17. 0	47. 0	7. 48	·0995					
17. 30	48. 0	10. 55	·0996					
17. 45	47. 10	13. 55	·1001					
18. 3	49. 0	14. 32	·0999					
18. 15	48. 50	17. 25	·1006					
18. 25	50. 10	17. 40	·1001					
19. 0	50. 15	18. 42	·1001					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 17		May 17						
h m	° ′ ″	h m		h m		h m	°	°
20. 7	21. 45. 35	19. 15	·1006					
	***	21. 30	·0990					
21. 32	46. 0		***					
	***	23. 5	·0977					
22. 36	52. 20	23. 59	·0975					
23. 59	53. 10							
May 18		May 18		May 18		May 18		
0. 0	21. 53. 5	0. 0	·0975	0. 15	·01306	1. 40	59 ·0	59 ·0
0. 31	54. 15	2. 50	·0969	1. 35	·01168	3. 40	63 ·0	64 ·0
2. 29	53. 15	3. 0	·0972	2. 35	·00959	9. 40	63 ·5	64 ·0
3. 55	50. 0	3. 12	·0966	4. 32	·00968	21. 40	56 ·0	57 ·0
8. 5	45. 0	5. 12	·0983		·01046			
10. 40	47. 30	5. 27	·0979	6. 33	·00964			
11. 35	46. 35	5. 58	·0987	10. 15	·01040			
12. 0	50. 35	6. 15	·0980	12. 5	·01152			
12. 16	48. 20	6. 49	·0982	14. 15	·01330			
13. 45	48. 55	7. 18	·0986	17. 16	·01665			
14. 9	48. 0	8. 47	·0985	20. 0	·01670			
20. 0	44. 15	9. 2	·0980	22. 30	·01650			
22. 5	46. 30	9. 23	·0985	23. 59	·01552			
23. 0	50. 10	10. 3	·0979					
23. 59	51. 0	10. 12	·0983					
		12. 40	·0991					
		13. 5	·0985					
		16. 14	·0995					
		19. 15	·0995					
		19. 45	·0992					
			(†)					
May 19		May 19		May 19		May 19		
0. 0	21. 51. 5	0. 31	·0974	0. 30	·01516	1. 40	60 ·0	61 ·0
0. 30	54. 55	2. 28	·0977	2. 0	·01360	3. 40	63 ·0	65 ·0
2. 35	55. 10	2. 41	·0982	3. 49	·00952	9. 40	56 ·5	57 ·0
4. 40	51. 30		***		·01004	23. 14	59 ·5	61 ·0
7. 0	48. 30	3. 43	·0983	5. 45	·00968			
7. 53	49. 5	4. 4	·0986	8. 30	·00972			
8. 51	49. 30	4. 11	·0970	12. 20	·01007			
9. 10	48. 30	4. 17	·0987	14. 30	·01182			
10. 25	48. 0	4. 43	·0988	17. 15	·01426			
11. 30	50. 0	4. 48	·0992	20. 35	·01720			
13. 15	50. 20	5. 27	·0985		·01697			
17. 0	48. 30	5. 47	·0987	22. 0	·01708			
19. 10	45. 0	6. 7	·0980	23. 30	·01686			
20. 20	46. 0	7. 32	·0992					
22. 0	48. 40	9. 15	·0982					
23. 59	53. 0	13. 7	·0984					
		15. 20	·0992					
		18. 0	·0982					
		19. 37	·0987					
		21. 46	·0978					
		23. 32	·0977					
May 20		May 20		May 20		May 20		
0. 0	21. 53. 10	0. 0	·0973	0. 0	·01645	10. 42	66 ·0	66 ·5
1. 0	55. 20		***	2. 33	·01462	21. 40	56 ·0	56 ·5
2. 20	54. 0	2. 52	·0987	4. 28	·01342			
4. 2	50. 35	3. 16	·0976	5. 48	·01150			
10. 5	48. 0		***	7. 30	·00986			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 20		May 20		May 20				
h m	° ′ ″	h m		h m		h m	°	°
10. 44	21. 44. 4	4. 7	·0975	7. 42	·01514			
11. 55	45. 5	4. 24	[illegible]	11. 15	·01116			
12. 46	44. 0	4. 42	[illegible]	13. 16	·01270			
13. 25	46. 0	5. 3	·0982	15. 5	·01403			
15. 15	46. 55	5. 21	·0986	16. 40	{ ·01721			
16. 31	44. 45	5. 40	·0982		{ ·01687			
17. 0	46. [illegible]	6. 2	·0989	21. 28	·01636			
21. 36	47. 15	6. 20	·[illegible]85	22. 55	{ ·01630			
23. 0	49. 0	6. 33	·[illegible]1		{ ·01428			
23. 6	49. 40	7. [illegible]	·[illegible]	23. 59	·01425			
		9. 7	·0995					
		[illegible]	·[illegible]					
		[illegible]	·0984					
		[illegible]	·[illegible]					
		10. 10	·[illegible]					
		10. 20	·[illegible]					
		10. 38	·0982					
		11. 10	·[illegible]					
		11. 25	·[illegible]					
		12. 0	·0988					
		12. 44	·0981					
		[illegible]	[illegible]					
		15. 0	·0994					
		18. 18	·1002					
			(†)					
May 21		May 21		May 21		May 21		
0. 48	21. 56. 0		(†)	1. 17	·01398	1. 40	56 ·5	57 ·0
1. 40	57. 20	1. 36	·1004	5. 15	·01304	3. 40	58 ·5	59 ·0
3. 31	52. 15	2. 52	·1014	8. 0	·01160	9. 40	59 ·5	60 ·0
5. 5	51. 30	3. 20	·1011	10. 44:	·01122	21. 40	55 ·0	56 ·0
5. 59	50. 0	4. 0	·1017	13. 58	·01270			
11. 15	50. 5	4. 27	·1008	15. 42	·01302			
11. 59	48. 35	4. 48	·1011	16. 57	·01360			
12. 47	49. 10	5. 12	·1004	17. 28	·01434			
13. 0	50. 0	5. 40	·1002	21. 2	·01504			
13. 34	48. 40	5. 58	·1010	23. 25	·01482			
14. 25	51. 0	6. 26	·1012					
14. 50	49. 5	6. 30	·1008					
15. 20	49. 30	7. 3	·1014					
16. 15	47. 35							
16. 45	48. 30	7. 40	·1011					
18. 0	46. 0	7. 45	·1014					
		10. 30	·1013					
19. 10	44. 30	13. 0	·1007					
20. 45	45. [illegible]	15. 50	·1015					
22. 1	47. 30	17. 40	·1015					
23. 59	53. 0	19. 5	·1014					
		22. 0	·1010					
		23. 20	·1004					
May 22		May 22		May 22		May 22		
0. 0	21. 53. 10	0. 0	·0990	0. 0	·01516	1. 40	56 ·0	57 ·0
1. 30:	56. 0	0. 48	·0992	1. 38	·01534	3. 40	57 ·5	58 ·5
5. 22	49. 5	3. 45	·0998	3. 15:	·01485	9. 40	61 ·5	62 ·5
6. 47	48. 0	5. 13	·1005	8. 40	·00906	21. 40	55 ·0	56 ·5
10. 15	49. 20	5. 24	·[illegible]8	10. 55	·01358			
15. 0	48. 35	6. 2	·1005	13. 30:	·00936			
17. 0	50. 0	8. 3	·1006	16. 0	·01221			
May 22				May 22				
h m	° ′ ″			h m				
17. 22	21. 49. 0			10. 15	·1004			
				13. 15	·1003			
19. 50	47. 50			16. 47	·1012			
21. 35	49. 40			17. 30	·1016			
23. 59	55. 0			18. 0	·1015			
				19. 12	·1015			
				22. 26	·0995			
				22. 42	·0996			
				23. 59	·0987			
May 23				May 23		May 23		
0. 0	21. 55. 5			0. 0	·0987	0. 0	·01469	
0. 49	56. 0					2. 37	·01228	
1. 37	55. 50			3. 42	·0990		(†)	
3. 43	51. 40			5. 13	·1002	3. 40	·01067	
5. 45	49. 45			5. 25	·0997		(†)	
9. 48	49. 30			5. 32	·1006	10. 0	·00810	
15. 17	49. 20			7. 30	·1007		(†)	
16. 44	48. 20			8. 20	·1004	21. 40	·01513	
				11. 5	·1007		(†)	
19. 21	46. 0			11. 56	·1005			
22. 21	53. 0			14. 10	·1011			
22. 45	52. 25			17. 0	·1015			
	(†)			21. 0	·1004			
				22. 33	·1004			
					(†)			
May 24				May 24		May 24		
1. 40	21. 54. 36*			1. 40	·0978	0. 0	·01362	
3. 40	53. 57*			3. 40	·0989	1. 40	{ ·01200	
9. 40	49. 6*			9. 40	·1036		{ ·01040	
21. 40	48. 5*			21. 40	·1039	3. 5	·00844	
						3. 45	·00882	
						7. 15	·00828	
						10. 0	·00837	
						12. 45	·00900	
						13. 50	·00923	
						15. 15	·01058	
						18. 0	·01417	
						20. 12	{ ·01700	
							{ ·01617	
						22. 45	·01602	
May 25				May 25		May 25		
0. 0	21. 53. 0			0. 0	·1010	0. 0	·01514	
0. 16	54. 40			0. 13	·1012	1. 30:	·01554	
0. 47	52. 20			0. 20	·1016	3. 29	·[illegible]42	
1. 1	56. 25			0. 42	·[illegible]92	7. 45	·00864	
1. 14	54. 50			1. 2	·1021	11. 0	·00885	
2. 0	55. 40			1. 10	·1007	12. 30:	·00940	
3. 10	54. 20			1. 17	·1008	16. 0	·01328	
3. 40	52. 50			1. 26	·1017	18. 15	·01700	
6. 8	49. 0			1. 38	·1012	18. 17	·01640	
8. 40	48. 15			1. 47	·1017	21. 30	·01640	
16. 45	47. 0			1. 57	·1015	23. 20	·01412	
20. 22	44. 40			2. 1	·1018			
23. 0	51. 35			2. 50	·1002			
23. 30	52. 0				[illegible]			
23. 59	52. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

May 23. 2h. 40m. The Vertical Force time-piece stopped. It was started at 0h., the change of force within those times was −0·004. It stopped again at 10h., and the change of force between 10h. and 23h. was −0·005.

May 24. The time-piece having stopped, the Photographic Traces for the Horizontal Force and Declination Magnets cannot be used.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
May 26	
0. 0	21. 52. 35
1. 47	55. 5
3. 15	51. 25
4. 45	49. 20
6. 36	50. 0
8. 16	49. 15
8. 32	50. 0
9. 0	48. 30
9. 14	49. 5
9. 56	46. 0
	***
12. 5	48. 10
12. 49	46. 20
13. 51	46. 30
	***
15. 5	42. 0
15. 44	44. 50
15. 59	43. 40
16. 14	44. 20
17. 0	42. 40
17. 5	44. 35
17. 15	42. 30
	***
17. 46	44. 0
18. 8	41. 0
	***
19. 9	51. 30
	***
19. 50	55. 10
20. 5	53. 0
	***
20. 46	56. 30
21. 29	49. 15
21. 44	49. 50
22. 15	58. 0
22. 30	55. 0
	(†)
May 27	
1. 36	21. 55. 5
	***
2. 0	56. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
May 25	
4. 42	·1012
	***
7. 5	·1010
	***
13. 45	·1024
16. 26	·1030
16. 33	·1026
18. 10	·1028
19. 9	·1027
19. 50	·1018
23. 30	·1006
May 26	
0. 0	·1005
0. 50	·1005
	***
1. 17	·0974
1. 33	·0974
1. 49	·0960
1. 51	·0990
	***
3. 27	·0993
	***
4. 48	·1007
6. 16	·1011
6. 58	·1015
7. 3	·1011
7. 15	·1019
7. 50	·1021
8. 0	·1014
8. 17	·1009
8. 37	·1011
8. 52	·1002
9. 10	·1006
9. 18	·1004
10. 5	·1011
10. 17	·1002
10. 25	·1010
10. 33	·1005
10. 53	·1000
	***
14. 40	·1022
14. 50	·1026
15. 0	·1018
15. 8	·1022
17. 8	·1022
17. 42	·1018
19. 17	·0985
21. 12	·1010
21. 17	·1003
22. 13	·1000
22. 25	·0982
22. 30	·0997
23. 16	·0990
May 27	
0. 0	·1012
1. 37	·1019
1. 48	·1014

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 26	
0. 0	·01314
2. 10	·00953
5. 0	·00844
6. 38	·00804
9. 15	·00920
14. 30	·01486
15. 18	·01620
	·01546
17. 15	·01580
20. 30	·01527
23. 0	·01476
May 27	
1. 0	·01537
3. 30	·01342
5. 0	·01180

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 26		
1. 40	72 ·0	73 ·0
3. 40	76 ·0	77 ·0
9. 40	75 ·0	75 ·0
23. 30	68 ·0	69 ·0
May 27		
9. 40	72 ·5	72 ·5
21. 40	63 ·5	64 ·0

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
May 27	
2. 15	21. 58. 30
2. 45	55. 35
2. 59	58. 0
3. 10	56. 30
3. 20	57. 30
3. 44	54. 0
	***
4. 16	54. 0
4. 26	51. 0
5. 43	48. 0
6. 45	50. 0
7. 17	48. 35
7. 48	40. 30
8. 10	43. 45
8. 30	37. 20
8. 53	45. 0
9. 11	43. 25
9. 39	40. 0
	***
10. 22	40. 30
10. 47	43. 20
11. 20	42. 0
	***
12. 28	47. 0
12. 45	45. 15
13. 1	39. 30
13. 19	39. 0
13. 48	43. 25
14. 33	40. 25
	***
15. 20	43. 0
15. 40	41. 0
16. 0	46. 0
16. 15	46. 30
16. 46	54. 40
17. 0	54. 30
	***
18. 21	43. 0
	***
19. 15	52. 0
19. 35	21. 51. 30
20. 8	22. 0. 0
20. 39	21. 53. 0
20. 50	53. 25
21. 45	51. 0
	***
23. 45	56. 20
23. 59	56. 20

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
May 27	
2. 13	·1025
2. 35	·0993
2. 47	·0994
2. 59	·1018
	***
3. 24	·1018
3. 30	·0997
	***
3. 55	·0992
4. 5	·0994
4. 13	·1005
4. 22	·1001
4. 45	·1010
4. 53	·1006
5. 0	·1010
5. 5	·1005
5. 10	·1009
5. 13	·1004
5. 30	·1022
5. 47	·1008
6. 2	·1007
6. 32	·1017
7. 12	·1011
7. 18	·1011
7. 34	·0996
8. 0	·1012
8. 28	·1014
8. 43	·1026
9. 2	·1018
10. 5	·1015
10. 17	·1004
10. 31	·1006
11. 45	·0998
11. 55	·1005
12. 27	·1008
12. 42	·1018
13. 2	·1017
13. 12	·1022
13. 39	·1022
14. 12	·1019
14. 48	·1021
15. 2	·1029
15. 10	·1028
15. 30	·1019
16. 6	·1026
16. 28	·0994
17. 57	·1024
18. 0	·1021
18. 5	·1022
18. 16	·1018
18. 35	·1024
18. 57	·1021
19. 15	·1015
19. 45	·0984
20. 17	·1016
20. 45	·1024
22. 58	·1016
	(†)
May 27	
7. 0	·00884
	·00818
	***
	·00762
	·00746
11. 15	·01418
13. 15	·01418
16. 0	·01532
18. 45	·01517
19. 3	·01490
21. 0	·01418
23. 49	·01474

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 28		May 28		May 28		May 28		
h m	° ′ ″	h m		h m		h m		
1. 40	21. 55. 7*	0. 45	·1018	1. 0	·01486	1. 40	62 ·0	63 ·0
3. 40	51. 18*	1. 40	·1024	3. 35	·01582	3. 40	63 ·0	63 ·5
9. 40	46. 35*	2. 13	·1034		·01550	9. 40	61 ·0	62 ·5
21. 40	48. 49*	2. 47	·1032	9. 14	·01561	21. 40	51 ·5	52 ·5
		3. 11	·1012	9. 59	·01550			
		3. 40	·1038	10. 31	·01475			
		5. 35	·1038	14. 30	·01492			
		5. 58	·1048	17. 35	·01460			
		6. 25	·1042		(†)			
		7. 13	·1058					
		8. 10	·1042					
		8. 30	·1059					
		9. 52	·1040					
		10. 10	·1056					
		11. 15	·1037					
		17. 0	·1046					
			(†)					
		21. 40	·1031					
May 29		May 29		May 29		May 29		
0. 15	21. 55. 0	0. 15	·1034	0. 0	·01395	1. 40	54 ·0	55 ·0
	***	1. 15	·1032	1. 33	·01400	3. 40	58 ·0	59 ·0
1. 21	57. 0	1. 30	·1022	2. 32:	·01340	9. 40	56 ·0	57 ·0
2. 0	54. 55		***	6. 18	·00838	21. 40	51 ·0	51 ·5
5. 30	49. 40	5. 0	·1027	8. 32:	·00682			
5. 56	50. 5	5. 35	·1022	9. 58	·00716			
6. 35	49. 5	5. 55	·1031	11. 46	·00880			
7. 1	50. 0	6. 15	·1018	14. 45	·01160			
7. 25	48. 35	6. 48	·1019	18. 11	·01482			
7. 55	50. 0	7. 2	·1027		·01399			
8. 4	48. 35		***	20. 14	·01416			
9. 0	50. 40	7. 55	·1034	21. 16	·01400			
10. 0	50. 50		***	22. 16:	·01421			
10. 30	49. 10	9. 0	·1033	23. 59	·01329			
10. 45	49. 50	10. 25	·1035					
11. 48	48. 30	11. 42	·1037					
12. 5	51. 20	12. 47	·1031					
13. 45	51. 0	13. 48	·1042					
14. 15	48. 40	14. 58	·1054					
14. 45	49. 30	16. 30	·1042					
15. 14	52. 25	18. 22	·1032					
15. 51	50. 20	18. 47	·1028					
17. 45	47. 0	21. 0	·1035					
	***	23. 59	·1022					
19. 32	48. 5							
	***							
20. 0	46. 35							
	***							
21. 29	47. 0							
23. 59	53. 50							
May 30		May 30		May 30		May 30		
1. 48	21. 53. 0*	1. 48	·1016*	1. 48	·01240*	1. 48	54 ·0	55 ·0
3. 40	54. 19*	3. 40	·1020*	3. 40	·00971*	3. 40	56 ·5	57 ·0
9. 40	48. 56*	9. 40	·1029*	9. 40	·00556*	9. 40	57 ·0	59 ·0
21. 40	46. 30*	21. 40	·1026*	21. 40	·01266*	21. 40	52 ·5	53 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 31		May 31		May 31		May 31		
h m	° ′ ″	h m		h m		h m		
0. 0	21. 51. 25	0. 0	·1030	0. 0	·01181	1. 40	55 ·0	56 ·0
2. 0	54. 30	1. 10	·1026	2. 13	·01042	3. 40	57 ·0	57 ·5
	***	1. 30	·1030	6. 41:	·00627	9. 40	57 ·5	58 ·0
3. 24	54. 0	2. 29	·1023	9. 0	·00540	21. 40	55 ·0	56 ·0
5. 8	50. 40	2. 42	·1030	14. 25:	·00551			
8. 59	49. 35	3. 0	·1027	18. 32	·00848			
9. 26	48. 5	3. 16	·1034	20. 31	·00940			
10. 47	48. 50	4. 4	·1031	22. 6	·00968			
11. 15	47. 30	4. 50	·1035	22. 24	·00858			
	***		***	22. 56	·00871			
13. 0	46. 40	6. 43	·1038					
13. 31	45. 0	7. 0	·1046					
15. 30	47. 0	7. 12	·1041					
18. 0	46. 0	7. 40	·1037					
18. 15	46. 45	8. 43	·1037					
18. 43	45. 15	8. 53	·1039					
19. 30	47. 0	10. 28	·1035					
21. 30	47. 25	11. 10	·1036					
23. 0	50. 15	12. 0	·1046					
		12. 32	·1038					
		13. 15	·1037					
		14. 15	·1040					
		14. 32	·1038					
		14. 50	·1041					
		16. 0	·1040					
		17. 33	·1038					
		19. 52	·1026					
		20. 53	·1031					
		22. 16	·1030					
		23. 4	·1034					
June 1		June 1		June 1		June 1		
0. 15	21. 57. 30	0. 0	·1030	0. 30	·00902	1. 40	56 ·0	57 ·0
3. 45	58. 55	1. 5	·1026	2. 31:	·00918	3. 40	56 ·5	57 ·0
5. 25	56. 10	2. 0	·1034	4. 31	·00778	9. 40	59 ·0	60 ·0
	***	2. 28	·1028	8. 1	·00510	21. 40	54 ·5	55 ·0
10. 35	52. 35	3. 0	·1034		·00600			
11. 6	51. 10	3. 15	·1042	11. 16	·00541			
12. 0	52. 0	4. 15	·1032	15. 0:	·00700			
12. 59	51. 5	4. 30	·1036	19. 18	·01202			
13. 30	53. 0	5. 0	·1031	19. 29	·01172			
14. 2	52. 5	5. 30	·1039	20. 59:	·01216			
14. 32	54. 35	6. 0	·1028	22. 58	·01203			
15. 33	52. 30	6. 27	·1040	23. 0	·01260			
18. 0	49. 0	7. 0	·1032	23. 6	·01245			
19. 45	49. 5	7. 32	·1039		·01200			
21. 55	52. 0	8. 0	·1030	23. 45	·01200			
23. 6	51. 30	11. 50	·1031					
23. 39	56. 30	13. 0	·1026					
		14. 0	·1036					
		15. 30	·1032					
		17. 30	·1034					
		19. 15	·1032					
		21. 30	·1020					
		23. 37	·1022					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

May 28. The Photographic Trace for the Horizontal Force was very faint, and was lost after 17h.

May 30. There were no Photographic Traces for the Horizontal Force and Declination Magnets.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 2		June 2		June 2		June 2		
h m	° ′ ″ (†)	h m	(†)	h m	(†)	h m	° °	
6. 36	21. 52. 40	6. 45	·1030	7. 0	·00792	1. 40	57 ·0	57 ·3
9. 20	52. 20	8. 0	·1026	7. 29:	·00881	9. 40	62 ·0	64 ·0
9. 46	49. 35	8. 45	·1024	9. 30	·00850	23. 10	57 ·0	58 ·0
11. 35	52. 10 ***	10. 15	·1028	11. 20:	·00776			
		12. 30	·1032	12. 51	·00832			
16. 8	51. 30	13. 15	·1025	14. 42:	·01100			
19. 38	48. 30	13. 45	·1040	17. 31	·01643			
20. 45	52. 0	16. 0	·1044		·01540			
21. 7	51. 15	17. 30	·1051	21. 45	·01630			
22. 7	52. 0	19. 0	·1051	22. 13:	·01558			
23. 59	56. 35	20. 30	·1036	22. 58	·01460			
		21. 0	·1032	23. 17	·01372			
		22. 15	·1020					
		23. 0	·1016					
		23. 59	·1018					
June 3		June 3		June 3		June 3		
0. 0	21. 56. 40	0. 0	·1030	0. 0	·01208	11. 32	59 ·0	60 ·0
1. 0	22. 0. 30	0. 45	·1034	2. 0	·00770	21. 40	59 ·0	60 ·0
3. 46	21. 57. 0	1. 45	·1046		·00840			
6. 55	50. 40	3. 0	·1040	5. 34	·00900			
7. 53	50. 15 (†)	3. 30	·1047	6. 58	·00814			
		4. 10	·1024	10. 0	·00900			
9. 50	50. 10	5. 15	·1030	14. 15	·01316			
10. 16	46. 35	7. 30	·1046	16. 23	·01620			
11. 25	51. 0	8. 30	·1020	17. 11	·01696			
12. 58	49. 30	9. 0	·1034		·01640			
13. 30:	55. 0	12. 25	·1031	20. 27	·01672			
14. 14	49. 55	14. 0	·1015	22. 13	·01604			
16. 0	50. 0	15. 15	·1022	23. 59	·01448			
17. 16	48. 30	17. 30	·1014					
17. 48	49. 50	18. 30	·1026					
18. 15	48. 25	19. 45	·1030					
18. 31	49. 0	21. 15	·1028					
19. 17	46. 5		(*)					
23. 59	55. 40							
June 4		June 4		June 4		June 4		
0. 45	21. 57. 30	1. 57	·1031	0. 30	·01382	1. 40	61 ·0	63 ·0
2. 0	59. 0	3. 40	·1016	1. 30	·01328	3. 40	64 ·5	65 ·0
7. 15	51. 0 (†)	9. 50	·1023	4. 50	·00911	9. 50	63 ·0	63 ·5
		21. 40	·1034		·00960	21. 40	59 ·5	60 ·0
10. 15	48. 30			7. 57	·00908			
10. 45	49. 50			8. 24	·00900			
13. 40	48. 35			9. 40	·00913			
14. 14	51. 25			10. 18	·00886			
15. 40	44. 40			11. 15	·00871			
16. 15	46. 45 ***			12. 32	·01022			
				14. 58	·01310			
18. 0	45. 50			17. 34	·01721			
19. 30	48. 0				·01655			
20. 35	47. 45			20. 33	·01680			
22. 10	51. 10			20. 40	·01642			
23. 30	52. 50			21. 53	·01639			
23. 59	53. 35			23. 28	·01503			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 5		June 5		June 5		June 5		
h m	° ′ ″	h m		h m		h m	° °	
0. 0	21. 53. 40	0. 0	·1020	0. 0	·01475	1. 40	61 ·0	62 ·0
1. 15	56. 0	3. 15	·1022	3. 13	·01139	3. 40	64 ·0	65 ·0
2. 5	56. 0	3. 45	·1016	4. 57	·00873	9. 40	68 ·5	70 ·0
3. 0	53. 30	4. 30	·1020		·00916	21. 40	69 ·0	70 ·0
4. 40	53. 30	6. 0	·1024	7. 44	·00946			
9. 40	49. 30	8. 30	·1024	8. 35	·01024			
10. 0	48. 0	10. 30	·1018	9. 27	·01010			
10. 45	49. 35	11. 0	·1014	11. 25	·00927			
12. 15	48. 45	14. 0	·1015	14. 40	·00955			
12. 44	49. 30	15. 45	·1018	15. 14	·00975			
13. 40	47. 35	18. 45	·1023	19. 16	·01060			
14. 15	47. 40	19. 15	·1012	20. 55:	·01280			
15. 35	48. 30	20. 15	·1008	22. 59	·01075			
16. 31	45. 35	20. 45	·1002					
17. 14	46. 0	22. 30	·1006					
18. 36	48. 0	23. 59	·1002					
19. 55	47. 15							
23. 32	51. 10							
June 6		June 6		June 6		June 6		
0. 0	21. 54. 0	0. 0	·1002	0. 0	·00871	1. 40	73 ·0	74 ·0
3. 44	21. 59. 0 ***	0. 45	·0996		·00945	3. 40	77 ·5	79 ·5
5. 14	22. 1. 35 ***	1. 49	·0998	1. 30:	·01544	9. 40	79 ·0	81 ·5
		2. 40	·0988	2. 14	·01060	21. 40	67 ·5	68 ·0
5. 54	21. 58. 30	3. 5	·1000		·01120			
6. 15	53. 0	3. 30	·0992		***			
6. 52	55. 0	3. 50	·0982	3. 44	·01000			
8. 51	51. 0	4. 15	·1006		·01060			
9. 21	51. 25	4. 33	·1021		***			
10. 31	51. 10	4. 48	·1009	7. 0	·00949			
10. 52	58. 30	5. 10	·1003	8. 46	·01018			
12. 46	52. 0	5. 15	·1013	10. 0:	·01151			
13. 17	41. 20	5. 45	·0978	11. 0	·01128			
15. 1	49. 30	6. 30	·1010	12. 32	·01220			
15. 15	48. 0 ***	6. 50	·1004 ***	13. 14	·01210			
16. 17	50. 30	7. 28	·1016	15. 28	·01600			
17. 15	48. 0	7. 40	·0990 ***	18. 15	·01584			
17. 59	51. 50			18. 45	·01560			
19. 14	50. 30	8. 40	·0996	21. 17	·01542			
19. 40	52. 30	8. 50	·1023	23. 56	·01548			
20. 30	51. 30	9. 15	·0980 ***					
21. 0	21. 49. 40							
22. 5	22. 1. 5 (†)	10. 0	·0994 ***					
		12. 0	·1013					
		12. 44	·1012					
		13. 5	·1038					
		14. 0	·1010 ***					
		15. 0	·1021 ***					
		16. 45	·1026 ***					
		19. 30	·1034					
		21. 0	·1020 (†)					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
June 7		June 7		June 7		June 7		
h m	° ′	h m		h m		h m	°	°
0. 10	22. 6.	0. 0	·1019	0. 0	·01572	1. 40	69	67
0. 35	21. 57. 30	1. 0	·1026	2. 32	·01561	3. 40	69	70
	***	1. 15	·1014	5. 1:	·01369	9. 40	67	68
2. 44	56. 15	1. 30	·1022		***	21. 40	64	65
2. 48	55. 5	2. 0	·1014	7. 0	·01284			
3. 16	57. 5	2. 14	·1022	9. 0:	·01320			
3. 24	59. 0	2. 30	·1016	11. 0:	·01350			
	***	2. 50	·1025	13. 4	·01538			
4. 7	54. 0	3. 14	·1028		·01500			
	***	3. 30	·1026	14. 27	·01498			
4. 35	55. 20	3. 35	·1016	15. 25	·01480			
5. 0	53. 30		***	16. 0	·01567			
	***	4. 15	·1022	17. 15	·01534			
6. 30	55. 0	4. 34	·1028	18. 0	·01510			
8. 0	51. 40	4. 49	·1045	19. 44	·01562			
9. 38	51. 20	5. 20	·1020	21. 50	·01508			
11. 0	49. 0	5. 32	·1042		(†)			
11. 45	51. 30	5. 55	·1024					
12. 7	50. 0	6. 45	·1030					
	***	7. 0	·1024					
13. 6	55. 30	7. 30	·1033					
13. 46	49. 40	8. 30	·1040					
14. 25	49. 35		***					
15. 0	50. 35	9. 15	·1034					
15. 30	49. 10		***					
17. 15	47. 30	10. 20	·1038					
18. 32	46. 30	13. 0	·1041					
	***	13. 30	·1030					
21. 10	49. 0	14. 15	·1030					
21. 36	50. 20	18. 15	·1049					
	(†)	19. 0	·1042					
		21. 0	·1038					
			(†)					
June 8		June 8		June 8		June 8		
1. 40	21. 55. 54*		(†)	0. 0	·01362	1. 40	64	65
3. 40	54. 37*	3. 15	·1020		(†)	3. 40	67	68
9. 40	44. 39*	4. 0	·1036	3. 25	·01120	9. 40	68	70
21. 40	51. 2*		***		***	21. 40	64	66
		4. 52	·1017	6. 30	·00760			
		5. 12	·1036	8. 11:	·00610			
			***	10. 16	·00585			
		7. 2	·1025		***			
		7. 48	·1042	11. 44	·00653			
		7. 58	·1032	14. 43	·01108			
		8. 51	·1033	17. 56	·01419			
		9. 5	·1031		·01349			
		9. 32	·1040	21. 54	·01416			
		9. 46	·1049	23. 15	·01401			
		10. 10	·1022	23. 44	·01380			
		10. 57	·1029					
		11. 25	·1021					
		12. 2	·1032					
		12. 50	·1037					
		15. 17	·1036					
		15. 22	·1030					
		17. 7	·1045					
		20. 49	·1024					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
June 9		June 9		June 9		June 9		
h m	° ′	h m		h m		h m	°	°
0. 45	21. 54. 0	0. 45	·1028	1. 0	·01326	1. 40	65	66
2. 50	55. 15	1. 35	·1023	3. 44	·00742	3. 40	66	68
5. 8	51. 15	3. 0	·1033		***	9. 40	67	69
8. 45	51. 0	3. 30	·1028	5. 54	·00669	22. 40	64	65
	***	3. 45	·1038	10. 4	·00711			
9. 52	50. 20		***	16. 14	·01279			
10. 38	46. 40	4. 10	·1029	18. 25	·01511			
10. 51	48. 50	4. 45	·1034		·01450			
11. 46	49. 50	5. 15	·1024	21. 1	·01511			
12. 14	48. 30	6. 5	·1022	23. 14	·01458			
12. 29	50. 45	6. 45	·1028					
13. 1	49. 30	8. 0	·1031					
13. 24	51. 0	10. 22	·1031					
13. 51	54. 30	10. 45	·1039					
14. 31	51. 10	11. 0	·1033					
14. 44	53. 0	11. 18	·1038					
14. 54	50. 50	12. 30	·1026					
15. 0	51. 0	13. 30	·1030					
15. 29	48. 0	16. 0	·1024					
15. 50	48. 0	16. 45	·1018					
16. 13	50. 0	18. 0	·1027					
16. 27	48. 35		***					
17. 0	50. 0	19. 30	·1023					
17. 25:	52. 55	21. 0	·1019					
	***		***					
18. 25	47. 0	23. 15	·1022					
	***	23. 59	·1017					
21. 0	48. 20							
23. 15	53. 0							
June 10		June 10		June 10		June 10		
0. 0	21. 53. 35	0. 0	·1016	0. 0	·01348	9. 35	73	73
3. 0	54. 30	3. 30	·1006	2. 18:	·01062	21. 40	66	67
5. 35	51. 0	4. 0	·1009	3. 59	·00744			
6. 47	50. 35	5. 0	·1012		·00778			
14. 47	52. 15	5. 45	·1016	7. 35	·00759			
15. 28	51. 0	7. 30	·1011	11. 30	·00739			
16. 4	49. 35	8. 30	·1013	15. 40	·01190			
	***		***	18. 20	·01545			
16. 55	44. 30	11. 0	·1016		·01450			
17. 10	51. 0	13. 30	·1021	21. 20	·01472			
20. 0	47. 0		***	22. 44	·01560			
20. 21	47. 0	15. 0	·1022	23. 40	·01533			
21. 0	50. 0	15. 15	·1019	23. 59	·01568			
22. 0	50. 20	15. 40	·1027					
22. 8	49. 15	16. 30	·1030					
22. 27	52. 30	17. 43	·1034					
23. 14	53. 0	18. 30	·1025					
23. 50	55. 30	18. 50	·1029					
		19. 30	·1017					
		21. 0	·1013					
		22. 15	·1005					
		23. 30	·1010					
		23. 59	·1008					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
June 11 h m	° ′ ″
1. 0	21. 59. 30
1. 22	22. 0. 0
1. 45	21. 56. 40
2. 45	53. 30
4. 21	52. 30
5. 8	53. 30
6. 21	50. 35
8. 0	49. 25
8. 30	43. 20
8. 53:	45. 15
9. 27	45. 0
10. 14:	58. 30
10. 49	43. 0
12. 1	50. 40
	***
14. 2	49. 20
14. 24	50. 35
14. 51	50. 0
15. 8	51. 35
	***
16. 55	48. 0
18. 22	48. 0
	***
20. 7	47. 55
20. 22	46. 5
	***
22. 16	48. 30
23. 59	54. 10
June 12	
0. 0	21. 54. 20
1. 0	56. 30
3. 0	56. 10
8. 0	48. 35
10. 15	50. 30
12. 14	51. 0
13. 12	49. 10
13. 30	50. 40
13. 49	49. 50
14. 21	51. 0
	***
16. 15	50. 30
17. 0	54. 0
17. 25	54. 0
18. 25	47. 5
	***
19. 4	47. 30
21. 38	49. 45
23. 34	53. 30
June 13	
1. 40	21. 57. 15*
3. 40	57. 11*
9. 40	51. 2*
21. 40	50. 20*

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 11 h m	
0. 5	·1003
1. 0	·1007
1. 37	·0976
2. 0	·0999
3. 10	·0996
3. 30	·1007
3. 48	·1002
4. 13	·1020
4. 45	·0996
6. 8	·1000
6. 20	·1005
7. 0	·1016
8. 20	·1000
8. 40	·1015
9. 0	·1021
9. 30	·1007
10. 0	·1002
11. 0	·1014
11. 45	·1005
13. 45	·1011
15. 0	·1018
19. 30	·1024
21. 15	·1016
	***
23. 59	·1008
June 12	
0. 0	·1008
0. 30	·1004
1. 5	·1003
1. 35	·1010
3. 22	·1020
3. 45	·1014
6. 30	·1022
7. 45	·1030
8. 30	·1028
13. 10	·1033
16. 0	·1039
	(†)
June 13	
1. 40	·1001
3. 40	·1006
9. 40	·1008*
21. 40	·1010*

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 11 h m	
1. 0	·01282
3. 15	·00847
4. 5	·00836
	·00815
6. 0	·00802
8. 30	·00838
10. 50	·00836
12. 15	·00952
15. 15	·01348
16. 40	·01376
	·01516
19. 30	·01544
21. 0	·01518
22. 15	·01538
23. 10	·01528
23. 59	·01470
June 12	
0. 40	·01402
3. 15	·01120
6. 15:	·00784
7. 39	·00702
	·00770
9. 0:	·00748
11. 0:	·00818
14. 15	·01200
16. 27	·01530
18. 15	·01502
21. 0	·01516
23. 20	·01468
June 13	
0. 0	·01444
1. 15	·01502
2. 15:	·01320
4. 15	·00938
5. 0	·00884
	·00862
7. 15	·00756

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
June 11 h m		
1. 40	69 ·0	70 ·0
3. 40	69 ·5	70 ·0
9. 40	63 ·5	65 ·0
21. 40	62 ·0	63 ·0
June 12		
1. 40	66 ·0	67 ·0
3. 40	68 ·5	70 ·0
9. 40	65 ·5	71 ·0
21. 40	64 ·0	65 ·0
June 13		
1. 40	64 ·0	65 ·0
3. 40	70 ·0	71 ·0
9. 40	70 ·0	70 ·0
21. 40	61 ·0	61 ·0

Göttingen Mean Solar Time.	Western Declination.
June 14 h m	° ′ ″
0. 20	21. 54. 10
2. 0	54. 20
3. 4	56. 15
5. 51	55. 30
7. 21	53. 10
8. 35	49. 30
11. 40	50. 15
12. 10	51. 30
13. 10	49. 35
13. 51	51. 0
14. 26	48. 55
15. 25	50. 20
18. 1	46. 0
18. 20	46. 30
18. 44	44. 30
19. 0	46. 25
20. 6	44. 50
21. 25	49. 25
23. 15	52. 0
23. 59	54. 5
June 15	
0. 0	21. 54. 20
1. 46	57. 30
2. 43	57. 30
5. 55	52. 0
9. 10	52. 20
12. 15	51. 0
13. 0	51. 40
13. 40	51. 30
14. 0	53. 30
14. 25	51. 20
15. 0	50. 40
15. 25	51. 30
15. 46	50. 0
16. 1	51. 25
16. 27	51. 20
16. 50	48. 25
17. 20	49. 50
18. 14	47. 40
18. 55	48. 15
19. 25	46. 35
21. 0	49. 40
21. 57	48. 35

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 14 h m	
0. 10	·1030
1. 0	·1043
1. 40	·1037
2. 20	·1046
3. 15	·1032
3. 30	·1036
4. 18	·1033
5. 0	·1036
5. 50	·0998
7. 15	·1040
8. 20	·1038
8. 38	·1043
9. 0	·1036
11. 33	·1041
12. 30	·1032
13. 45	·1041
14. 25	·1046
15. 30	·1044
17. 0	·1050
18. 15	·1046
20. 10	·1038
22. 45	·1036
23. 59	·1034
June 15	
0. 0	·1034
1. 0	·1046
2. 30	·1052
5. 0	·1046
7. 0	·1049
8. 0	·1043
9. 15	·1040
10. 30	·1042
13. 0	·1037
14. 30	·1052
16. 0	·1050
18. 0	·1050
20. 0	·1035
20. 45	·1028
21. 0	·1025
22. 15	·1030
23. 55	·1030

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 14 h m	
0. 30	·00730
1. 0	·00820
12. 0	·01488
13. 58	·01496
	·01510
16. 30	·01530
20. 0	·01482
22. 0	·01502
23. 55	·01504
June 14	
0. 30	·01415
2. 15	·01442
3. 41	·01458
8. 0	·01440
10. 0:	·01432
14. 0	·01360
16. 0	·01308
18. 45	·01368
	·01400
21. 0	·01445
23. 0	·01378
23. 59	·01337
June 15	
0. 30	·01312
3. 11	·01124
7. 30:	·00695
10. 30:	·00584
13. 0	·00780
15. 0	·01040
17. 32	·01466
	·01424
20. 30	·01440
21. 28	·01488
23. 30	·01504

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
June 14 h m		
1. 40	62 ·5	63 ·5
3. 40	61 ·0	62 ·0
9. 40	63 ·5	65 ·0
21. 40	62 ·0	62 ·5
June 15		
1. 40	62 ·0	63 ·0
3. 40	63 ·5	65 ·0
9. 40	63 ·5	63 ·5
21. 40	59 ·0	60 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June15								
h m	° ′ ″	h m		h m		h m	°	°
23. 52	21. 52. 35							
June16		June16		June16		June16		
0. 0	21. 54. 45	0. 50	·1026	0. 0	·01360	1. 40	63 ·0	63 ·0
1. 14	58. 30	2. 0	·1033	2. 30	·01050	3. 40	64 ·0	65 ·0
2. 30	59. 0	5. 0	·1032	5. 44	·00627	9. 43	65 ·0	66 ·0
5. 44	51. 5	5. 37	·1026	7. 30	·00654	22. 58	55 ·5	55 ·0
7. 47	51. 30	6. 25	·1033	8. 27	·00638			
8. 55	49. 30	6. 42	·1028	9. 20	·00670			
10. 2	51. 30	7. 46	·1032	11. 0	·00610			
15. 15	53. 10	7. 28	·1026	13. 0	·00734			
16. 30	50. 0	8. 45	·1030	15. 30	·00978			
17. 30	49. 30	10. 45	·1032	18. 15	·01320			
	***	15. 15	·1026	19. 45	{·01500			
21. 0	49. 20	18. 45	·1038		·01436			
22. 15	51. 0	21. 30	·1030	21. 30	·01428			
23. 59	55. 20	22. 30	·1026	23. 6	·01447			
		22. 55	·1025					
			(†)					
June17		June17		June17		June17		
0. 0	21. 55. 30	0. 30	·1023	0. 0	·01420	10. 10	60 ·0	63 ·0
1. 30:	59. 5	3. 15	·1030	3. 30:	·01503	21. 40	57 ·0	57 ·8
4. 25:	52. 30	5. 45	·1041	6. 30:	·01362			
7. 0	49. 45	6. 45	·1046	11. 10	·01290			
10. 20	50. 0	7. 43	·1042	13. 0	·01348			
16. 7	50. 35	14. 30	·1044	15. 11	{·01590			
18. 2	47. 30	18. 15	·1048		{·01417			
20. 32	46. 0	19. 30	·1042	16. 50	·01455			
22. 36:	47. 55	20. 45	·1033	18. 45	{·01420			
23. 59	52. 0	22. 30	·1018		{·01238			
		23. 0	·1017	20. 0	·01360			
		23. 59	·1024	21. 30:	·01420			
				23. 59	·01274			
June18		June18		June18		June18		
0. 0	21. 52. 10	0. 0	·1024	0. 45	·01206	1. 40	59 ·0	59 ·0
1. 0	55. 25	1. 45	·1028	2. 45	·00936	3. 40	63 ·0	64 ·0
2. 11	55. 0	2. 30	·1034	4. 30:	·00748	9. 40	59 ·0	60 ·0
3. 0	55. 30		***	7. 29	·00786	21. 40	55 ·0	56 ·0
4. 45	55. 0	4. 42	·1004	9. 28	·00830			
8. 7	51. 25	5. 15	·1040	12. 32	·00811			
11. 35	52. 0	6. 45	·1046	21. 40	(†)			
13. 10	50. 45	8. 30	·1051	22. 56	·01210			
14. 30	50. 35	11. 0	·1035	23. 18	·01306			
	(†)	15. 10	·1037					
22. 6	49. 10		(†)					
23. 30	53. 35	22. 0	·1043					
		23. 25	·1037					
June19		June19		June19		June19		
0. 0	21. 56. 15	0. 0	·1040	0. 0	·01263	1. 40	58 ·0	59 ·0
0. 22	56. 50	1. 30	·1038	1. 25:	·01145	3. 40	62 ·0	63 ·0
1. 45	54. 30	1. 47	·1032	3. 47	·00640	9. 40	62 ·0	63 ·0
3. 0	54. 40	3. 0	·1030	5. 40	·00638	21. 40	55 ·5	56 ·5
6. 30	52. 5	4. 0	·1033	8. 0	·00682			
8. 13	50. 5	5. 30	·1027	9. 50:	·00649			
8. 30	49. 35	7. 30	·1038	13. 3	·00972			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June19		June19		June19				
h m	° ′ ″	h m		h m		h m	°	°
12. 0	21. 50. 20	8. 0	·1034	16. 1	{·01482			
15. 45	49. 30	9. 10	·1033		{·01420			
17. 55	46. 0	10. 10	·1028	22. 30	·01416			
22. 0	47. 0	13. 0	·1035	23. 28	·01540			
23. 10	49. 30	15. 30	·1045					
		17. 30:	·1049					
		18. 30	·1044					
			(†)					
		23. 59	·1021					
June20		June20		June20		June20		
0. 8	21. 54. 0	0. 0	·1021	0. 0	·01333	1. 40	58 ·0	59 ·0
1. 35	56. 30	1. 30	·1029	1. 5:	·01259	3. 40	61 ·0	62 ·0
5. 21	52. 0	2. 45	·1032	3. 18	·00801	9. 40	63 ·0	64 ·0
10. 11	50. 40	3. 5	·1037	4. 10	·00640	21. 40	56 ·0	57 ·0
12. 5	52. 30	4. 27	·1031	4. 14	·00664			
12. 46	49. 25	5. 30	·1035	6. 14:	·00739			
13. 16	50. 20	6. 45	·1032	8. 15	·00708			
14. 0	48. 50	8. 0	·1036	10. 16	·00651			
14. 13	50. 5	8. 30	·1030	12. 23	·00794			
14. 47	50. 30	9. 15	·1034	14. 13	·01119			
15. 14	49. 10	11. 30	·1036	15. 54	{·01459			
16. 55	49. 50	12. 40	·1039		{·01430			
17. 56	48. 0	13. 15	·1046	20. 14	·01418			
22. 8	49. 0	14. 15	·1042	22. 0:	·01442			
23. 45	52. 30	16. 0	·1049	23. 30	·01300			
		17. 0	·1053					
		18. 30	·1049					
		20. 15	·1041					
		21. 27	·1038					
		23. 46	·1030					
June21		June21		June21		June21		
0. 18	21. 52. 40	0. 0	·1033	0. 0	·01230	1. 40	59 ·0	60 ·0
2. 50	57. 0	1. 30	·1028	2. 13	{·00676	3. 40	66 ·0	67 ·0
4. 15	57. 0	3. 0	·1025		{·00720	9. 40	68 ·0	70 ·5
7. 30	49. 30	4. 30	·1032	4. 0	·00792	21. 40	59 ·0	61 ·0
13. 38	49. 30	5. 15	·1030	8. 6	·00796			
15. 22	51. 55	6. 0	·1028	10. 0	·00742			
16. 30	50. 0	9. 0	·1022	11. 30	·00780			
17. 0	48. 0	9. 5	·1023	14. 0:	·01064			
18. 0	46. 30	15. 0	·1030	16. 47	{·01560			
21. 6	46. 30	17. 15	·1038		{·01500			
22. 39	48. 35	19. 45	·1035	20. 0	·01476			
23. 59	53. 0	20. 28	·1028	22. 15	·01513			
		21. 39	·1019	23. 0	·01504			
		22. 29	·1015					
		23. 59	·1017					
June22		June22		June22		June22		
0. 0	21. 53. 5	0. 0	·1017	0. 0	·01358	1. 40	64 ·0	65 ·0
3. 15	57. 0	2. 18	·1028	2. 41	·00776	3. 40	64 ·0	66 ·0
	***	2. 26	·1031		***	9. 40	71 ·0	74 ·0
3. 59	59. 20	2. 40	·1022	4. 45	·00860	21. 40	68 ·0	70 ·0
4. 14	21. 58. 10	3. 0	·1030		***			
4. 44:	22. 1. 30	3. 16	·1013	6. 25	·00841			
5. 8	21. 59. 0		***		***			
	***	4. 12	·1014	8. 10	·00914			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June22		June22		June22				
h m	° ′ ″	h m		h m		h m	°	°
6. 14	21. 58. 0	4. 47	·1074	10. 15	·00816			
	***	5. 14	·1012	12. 0	·00848			
7. 9	52. 25	5. 30	·0998	14. 50	·01037			
7. 32	55. 15	6. 3	·1063	15. 30:	·01030			
8. 13	43. 30	6. 30	·1033		***			
8. 22	44. 50	7. 24	·1034	17. 16	·01244			
8. 35	44. 30	7. 45	·1007	19. 0	·01464			
8. 45	46. 0	8. 30	·1024	21. 30:	·01672			
9. 3	45. 10	9. 15	·1012	23. 5	·01638			
	***	9. 45	·1017					
10. 8	49. 0	10. 20	·1004					
10. 30	47. 10	11. 0	·1011					
11. 6	48. 25	12. 30	·1016					
11. 26	47. 30	13. 35	·1015					
12. 0	50. 0	14. 0	·1027					
12. 53	47. 50		***					
13. 40	48. 0	15. 15	·1018					
	***		***					
14. 30	41. 30	16. 10	·1036					
15. 4	53. 30	16. 32	·1024					
15. 47	43. 0	17. 15	·1044					
	***	18. 30	·1016					
16. 45	40. 35	18. 44	·1011					
16. 55	38. 30	19. 5	·1021					
17. 5	41. 30	19. 15	·1004					
17. 11	41. 0	19. 30	·1018					
17. 21	44. 30	20. 0	·1018					
17. 30	39. 0		(†)					
17. 55	41. 30	23. 10	·1004					
18. 30	42. 0	23. 39	·1012					
18. 45	40. 25	23. 59	·1008					
19. 7	47. 35							
19. 15	43. 30							
19. 34	49. 30							
19. 46	45. 20							
	***							
20. 30	48. 0							
20. 39	50. 40							
	***							
21. 4	48. 0							
21. 15	50. 0							
21. 30	48. 25							
	***							
23. 0	53. 50							
	***							
23. 59	54. 0							
June23		June23		June23		June23		
0. 0	21. 54. 10	0. 0	·1008	0. 0	·01562	1. 40	68 ·5	69 ·0
0. 30	56. 0	0. 55	·1003	1. 16	·01448	3. 40	70 ·0	71 ·0
1. 0	54. 35	1. 12	·1018		***	9. 40	65 ·0	66 ·0
1. 5	56. 10	1. 30	·1010	3. 26	·01446	22. 58	61 ·0	62 ·5
1. 20	54. 40	2. 15	·1015	4. 35	·01484			
1. 56	56. 10		***	6. 0	{·01640			
	***	3. 16	·1032		{·01581			
2. 50	54. 35	3. 30	·1024		***			
3. 10	56. 0	4. 0	·1033	7. 55	·01600			
3. 21	55. 0	4. 23	·1043	8. 15	·01622			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June23		June23		June23				
h m	° ′ ″	h m		h m		h m	°	°
4. 19	21. 55. 25	4. 43	·1025	10. 30	·01566			
4. 45	53. 20	5. 30	·1042	14. 15	·01488			
	***	6. 15	·1028	18. 4	·01484			
5. 45	53. 30	6. 30	·1044	22. 36	·01512			
6. 13	51. 5	7. 0	·1034					
7. 8	51. 30	7. 36	·1050					
7. 29	48. 30	7. 50	·1034					
7. 37	49. 30	8. 15	·1047					
8. 0	44. 0	8. 44	·1047					
8. 20	48. 10	9. 30	·1032					
8. 33	46. 40	11. 0	·1045					
9. 46	51. 15	11. 30	·1034					
10. 15	46. 30	11. 50	·1041					
10. 30	47. 0	12. 46	·1036					
10. 53	52. 20	13. 15	·1024					
11. 15	49. 0	14. 30	·1037					
11. 44	48. 0	18. 0	·1034					
11. 55	49. 30	19. 15	·1040					
12. 15	46. 0	20. 0	·1040					
	***	22. 30	·1021					
12. 45	45. 0	23. 59	·1016					
13. 10	52. 5							
13. 31	54. 35							
14. 8	53. 20							
14. 16	55. 35							
	***							
14. 31	55. 35							
	***							
15. 41	49. 0							
	***							
16. 38	49. 25							
17. 15	48. 40							
17. 35	49. 35							
18. 9	47. 30							
	***							
20. 14	45. 30							
	***							
23. 59	53. 0							
June24		June24		June24		June24		
0. 0	21. 53. 5	0. 0	·1016	0. 0	·01472	9. 23	69 ·0	70 ·0
1. 8	54. 0	1. 15	·1014	2. 30	·01238	21. 40	61 ·0	62 ·5
	***	2. 0	·1010	6. 15	{·00630			
2. 36	56. 30		***		{·00702			
5. 14	52. 20	2. 58	·1018	9. 30	·00686			
6. 0	51. 35	3. 15	·1012	11. 0	·00630			
	***	3. 47	·1025	12. 0:	·00662			
6. 45	50. 10	5. 15	·1020	15. 0	·01023			
	***	5. 45	·1028	17. 45	{·01500			
8. 43	50. 30	6. 24	·1024		{·01403			
9. 44	42. 20	6. 32	·1035	21. 30	·01494			
	***	7. 0	·1027	23. 59	·01300			
10. 40	48. 25	7. 30	·1032					
10. 59	47. 25	8. 0	·1026					
11. 20	48. 30	9. 33	·1022					
11. 40	45. 35		***					
12. 0	49. 15	11. 30	·1017					
12. 16	47. 35	12. 28	·1020					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June24		June24						
h m	′ ″	h m		h m		h m	c	c
12. 40	21. 52. 25	14. 0	·1030					
		15. 0	·1034					
13. 27	53. 0	15. 30	·1030					
	***		***					
15. 1	48. 30	19. 0	·1041					
15. 31	52. 20	20. 0	·1034					
16. 0	51. 35	22. 8	·1026					
	***	23. 59	·1017					
16. 30	53. 0							
17. 15	53. 5							
	***							
19. 25	48. 0							
	***							
21. 37	49. 40							
21. 46	48. 20							
	***							
23. 59	54. 30							
June25		June25		June25		June25		
0. 0	21. 54. 35	1. 4	·1021	1. 0	·01084	1. 40	65 ·0	66 ·0
	***	2. 45	·1026	3. 20	·00648	3. 40	67 ·0	68 ·0
1. 33	53. 15	3. 46	·1034	8. 0	·00692	9. 40	67 ·5	69 ·0
	***	5. 33	·1031	9. 43	·00672	21. 40	65 ·5	66 ·5
2. 30	54. 40	9. 30	·1032	12. 30	·00858			
	***	12. 0	·1030	16. 30	·01348			
4. 15	51. 20	13. 30	·1041	18. 17	·01558			
5. 16	54. 25	16. 0	·1044		·01486			
6. 0	50. 15	18. 0	·1035	21. 0	·01502			
	***	20. 15	·1029	22. 0:	·01440			
7. 0	49. 45	21. 30	·1024	23. 17	·01256			
	***	22. 52	·1018					
9. 21	51. 15	23. 59	·1027					
10. 19	49. 10							
	***							
12. 29	53. 15							
	***							
15. 0	53. 0							
	***							
16. 31	50. 20							
16. 55	51. 0							
17. 22	48. 30							
	***							
20. 0	49. 0							
	***							
22. 49	51. 0							
June26		June26		June26		June26		
0. 15	21. 52. 0	0. 0	·1027		(†)	1. 40	68 ·5	70 ·0
	***	1. 50	·1030	2. 20	·00908	3. 40	70 ·5	71 ·5
2. 29	53. 30	2. 45	·1024	3. 14	·00764	9. 40	73 ·0	74 ·0
5. 15	49. 20	3. 45	·1024	8. 0	·00774	21. 40	67 ·0	68 ·0
6. 22	49. 30	3. 52	·1035	9. 50	·00746			
8. 45	53. 0	4. 15	·1027	13. 30	·01052			
	***	5. 0	·1034	16. 0	·01400			
12. 39	54. 5	5. 47	·1023	17. 50	·01638			
13. 5	51. 35	6. 13	·1034		·01578			
	***	6. 22	·1023	20. 30	·01594			
14. 31	51. 0	7. 30	·1029	22. 25:	·01580			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June26		June26		June26				
h m	′ ″	h m		h m		h m	c	c
15. 30	21. 52. 40	8. 15	·1026	23. 15	·01524			
		10. 30	·1026					
17. 30	49. 0	13. 40	·1040					
18. 30	49. 25	14. 30	·1036					
19. 19	48. 0	16. 30	·1038					
19. 48	49. 30	18. 25	·1035					
21. 13	44. 0	19. 30	·1022					
	***	23. 0	·1031					
23. 55	51. 50	23. 59	·1025					
June27		June27		June27		June27		
0. 0	21. 54. 30	0. 0	·1025	0. 0	·01464	1. 40	72 ·0	73 ·0
	***	1. 0	·1019	2. 43	·00831	3. 40	76 ·0	77 ·0
2. 3	48. 15	2. 55	·1022	4. 30	·00876	9. 40	78 ·0	78 ·0
	***	3. 15	·1014	7. 30	·00828	21. 40	68 ·5	70 ·0
3. 30	49. 20	5. 0	·1010	9. 22	·00800			
4. 45	47. 0	6. 15	·1012	10. 10:	·00814			
5. 45	47. 5	7. 15	·1016	11. 15	·00978			
	***	9. 30	·1018	14. 45	·01608			
6. 30	51. 0	11. 0	·1020		·01556			
8. 15	53. 0	13. 0	·1025	17. 0	·01516			
8. 40	51. 10	14. 15	·1034	20. 0	·01550			
	***	15. 15	·1030	21. 10	·01602			
9. 45	55. 0	17. 30	·1028	22. 30	·01536			
	***		(†)					
12. 40	55. 40	21. 40	·1003					
	***							
13. 15	54. 0							
	***							
14. 15	57. 0							
14. 39	52. 30							
15. 0	54. 35							
	***							
16. 14	49. 30							
	***							
19. 0	49. 15							
19. 30	46. 45							
	***							
20. 40	50. 25							
21. 4	49. 15							
	(†)							
June28		June28		June28		June28		
0. 0	21. 54. 50	0. 0	·1002	0. 0	·01238	1. 40	74 ·0	75 ·0
0. 52	56. 0	1. 8	·0996	1. 48	·00786	3. 40	77 ·0	78 ·0
	***	1. 43	·0995		·00840	9. 40	73 ·5	75 ·0
2. 0	55. 45	1. 52	·1004	5. 0	·00862	21. 40	66 ·5	68 ·0
	***	2. 30	·0996	7. 30:	·00812			
3. 43	51. 5	3. 15	·1000	10. 0:	·00968			
4. 7	53. 0	4. 25	·1004	13. 5	·01608			
	***	5. 0	·0996		·01540			
5. 45	48. 0	5. 30	·0993	17. 0	·01542			
	***	6. 15	·0998	21. 0:	·01596			
6. 44	48. 0	6. 36	·0994	22. 15	·01518			
	***	7. 5	·1002					
8. 50	52. 55		***					
	***	10. 45	·1013					
9. 55	53. 0	12. 15	·1020					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

June 25. The times, both of the Declination and Horizontal Force, may be a little in error on this day.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 28		June 28						
h m	° ′ ″	h m		h m		h m	°	°
10. 22	21. 50. 30	14. 0	·1022					
	***	15. 15:	·1030					
11. 29	53. 0	16. 0	·1025					
11. 47	49. 55	18. 45	·1030					
	***	20. 0	·1017					
13. 0	50. 0	23. 59	·1011					
13. 47	54. 0							
	***							
15. 15	51. 30							
15. 47	48. 0							
16. 23	50. 10							
	***							
17. 55	45. 0							
18. 53	48. 0							
	***							
20. 13	48. 50							
20. 40	45. 30							
21. 43	48. 40							
23. 59	54. 20							
June 29		June 29		June 29		June 29		
0. 0	21. 54. 0	0. 0	·1012	0. 0	·01264	1. 40	74·0	75·5
	***	0. 37	·1006	2. 8	·00816	3. 40	76·0	77·0
1. 36	56. 30	1. 20:	·1020	4. 13	·00880	9. 40	76·0	77·0
1. 45	55. 10	1. 45	·1014		·00957	21. 40	71·5	73·0
	***	2. 15	·1022	4. 26	·00920			
2. 0	57. 0	2. 39	·1009		·00980			
2. 30	55. 0	3. 10	·1014	8. 0	·00798			
2. 45	57. 30	4. 0	·1003	9. 0	·00800			
3. 2	54. 0	4. 30	·1014	12. 55	·01242			
	***	5. 0	·1009	13. 15:	·01234			
3. 40	55. 0	5. 40	·1003	15. 5	·01578			
3. 52	53. 5		(†)	17. 30	·01578			
4. 4	44. 10	9. 15	·1016	20. 0	·01616			
4. 17	52. 0	10. 30	·1006	21. 0	·01584			
4. 27	54. 35	10. 50	·1016	23. 25	·01598			
4. 37	53. 0	11. 35	·0996					
5. 7	50. 0	12. 45	·0998					
5. 16	51. 55	13. 5:	·1034					
5. 30	44. 30	13. 36	·1018					
5. 40	51. 15	15. 15	·1019					
5. 52	49. 30	15. 45	·1004					
6. 0	50. 30	16. 36	·1024					
	(†)	17. 35	·1024					
9. 1	48. 30		(†)					
	***	21. 40	·0987*					
9. 45	46. 15							
10. 15	44. 30							
10. 35	45. 0							
11. 25	40. 0							
11. 45	43. [illegible]							
12. 15	39. 55							
12. 30	46. 0							
13. 15	56. 0							
13. 30	53. 0							
14. 0	46. 30							
14. 15	46. 15							
14. 40	43. 3							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 29								
h m	° ′ ″	h m		h m		h m	°	°
15. 25	21. 49. 0							
15. 43	54. 15							
16. 30	51. 30							
17. 30	46. 10							
	(†)							
21. 40	52. 3							
June 30		June 30		June 30		June 30		
0. 15	21. 51. 30	0. 0	·1001	0. 0	·01572	1. 40	74·2	75·0
	***		***	2. 0	·01362	3. 40	75·5	77·0
1. 16	56. 0	1. 20	·1004	4. 30:	·00984	9. 40	74·0	75·0
	***	1. 45	·0990	5. 30:	·00918	22. 52	67·0	68·5
2. 17	54. 15	2. 0	·1000	8. 0	·00987			
2. 25	56. 0	2. 34	·1004	10. 15	·01212			
2. 33	55. 30	4. 0	·0998	12. 26	·01570			
2. 44	58. 55	5. 0	·1000		·01486			
2. 57	55. 0	5. 45	·0986	15. 0	·01557			
	***	6. 18	·1012	16. 15	·01564			
3. 29	51. 20		***	19. 0	·01522			
3. 45	54. 0	8. 0	·0997	21. 30	·01603			
	***	12. 0	·1020	23. 15	·01536			
4. 40	50. 0	13. 0	·1014					
	***	15. 45	·1027					
5. 20	51. 0	18. 30	·1017					
5. 50	46. 35	20. 0	·1014					
6. 14	47. 30	21. 0	·1007					
6. 31	51. 0	22. 30	·1004					
	***		(†)					
7. 34	53. 0							
7. 46	51. 0							
8. 22	50. 35							
8. 45	51. 55							
	***							
12. 32	48. 30							
14. 55	50. 10							
15. 15	54. 40							
15. 41	49. 0							
	***							
17. 0	46. 50							
18. 6	49. 0							
20. 23	43. 30							
21. 40	45. 30							
23. 15	51. 0							
July 1		July 1		July 1		July 1		
9. 50	21. 49. 25*	9. 50	·1010*	0. 0	·01500	9. 50	73·0	74·0
21. 40	46. 22*	21. 40	·0998*	1. 30:	·01364	21. 40	70·0	71·5
				4. 15	·00900			
				5. 30	·00712			
					·00762			
				12. 30:	·00672			
				14. 0	·00[illegible]			
				16. 15	·01258			
				19. 0	·01540			
				21. 14	·01602			
					·01[illegible]			
				22. 25:	·01[illegible]			
				23. 43	·01[illegible]			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 2		July 2		July 2		July 2		
h m	° ′ ″	h m		h m		h m	°	°
1. 50	21. 57. 34*	1. 50	·0992*	0. 0	·01328	1. 50	73·5	74·0
3. 40	54. 16*	3. 40	·1007*	2. 30	·00996	3. 40	74·5	76·0
9. 40	46. 46*	9. 40	·1004*	4. 35	·00670	9. 40	76·0	76·5
21. 40	45. 11*	21. 40	·1003*	5. 28	·00652 (†)	21. 40	72·0	73·0
				9. 40	·00548			
				11. 30	·00606			
				12. 30	·00692			
				13. 5	·00700			
				17. 15	·01228 (†)			
				21. 40	·01500*			
July 3		July 3		July 3		July 3		
0. 0	21. 50. 25	0. 0	·0978	0. 0	·01448	1. 40	74·5	76·0
0. 17	51. 0	3. 0	·0970	1. 30	·01216	3. 40	76·0	77·5
0. 29	49. 20	3. 30	·0982			9. 40	78·0	79·0
0. 51	53. 0	3. 47	·0988	4. 15	·00818	21. 40	71·5	73·0
		4. 12	·0980	7. 30	·00848			
1. 30	49. 20	4. 25	·0980	10. 0	·00804			
		4. 40	·0987	11. 30	·00818			
3. 29	49. 0	4. 53	·0982	14. 0	·01080			
				16. 30	·01378			
3. 50	48. 30	6. 18	·0994	18. 38	·01678			
		6. 30	·0992		·01610			
4. 38	47. 30	7. 17	·0995	22. 15	·01620			
5. 0	44. 10	7. 33	·0990	23. 45	·01660			
		8. 31	·0993					
6. 46	45. 30	8. 56	·0990					
8. 22	47. 20	9. 20	·0996					
8. 40	49. 10	10. 0	·0995 (†)					
9. 8	48. 0	21. 40	·1006*					
9. 30	50. 0							
9. 55	47. 30							
10. 12	46. 10							
10. 50	46. 30							
11. 35	46. 30							
11. 50	47. 30							
12. 17	48. 0							
17. 2	49. 35							
18. 42	46. 20							
19. 30	50. 0							
20. 40	48. 0							
21. 0	50. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 4		July 4		July 4		July 4		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 50. 40	0. 0	·0995	0. 0	·01630	1. 40	73·0	75·0
				2. 0	·01608	3. 40	76·0	77·0
0. 31	53. 0	1. 30	·0986	4. 30	·01200	9. 40	76·0	76·5
0. 44	51. 30	1. 48	·0997	8. 0	·00864	21. 40	64·5	66·0
		2. 26	·0989	9. 24	·00838			
1. 12	53. 30	2. 50	·0990	11. 15	·01074			
		2. 55	·0993	13. 0	·01418			
3. 5	51. 15	3. 12	·1008	13. 38	·01566			
3. 20	53. 15	3. 15	·1000	15. 55	·01514			
3. 30	50. 30			18. 0	·01478			
		4. 17	·1005	21. 30	·01466			
7. 40	46. 0	4. 47	·1002	22. 30	·01564			
		5. 7	·1015	23. 15	·01495			
8. 38	46. 0	5. 23	·1005					
9. 16	48. 0	5. 43	·1002					
9. 37	44. 5	6. 10	·1009					
9. 57	48. 0	6. 53	·1004					
10. 23	45. 5	7. 15	·1009					
		7. 58	·0999					
10. 52	49. 10	8. 45	·0997					
		9. 7	·1007					
12. 0	49. 20	9. 13	·0998					
12. 21	48. 0	10. 24	·1004					
12. 31	50. 40	10. 37	·1012					
12. 45	49. 40	10. 55	·1008					
13. 13	54. 0	11. 35	·1015					
14. 5	42. 0	11. 47	·1024					
14. 39	54. 45	12. 22	·1006					
		12. 47	·1008					
15. 15	43. 30	13. 2	·1021					
15. 43	47. 0	13. 30	·1013					
16. 14	48. 40							
		15. 5	·1024					
16. 25	46. 0	15. 20	·1016					
20. 20	56. 5	18. 17	·1023					
21. 25	50. 0							
22. 22	45. 5	20. 0	·1010					
		20. 20	·1010					
22. 51	49. 20	20. 40	·1019					
		21. 2	·1020					
23. 30	49. 40	22. 42	·1010 (†)					
July 5		July 5		July 5		July 5		
0. 1	21. 49. 0	0. 0	·1010	0. 0	·01478	1. 40	67·0	69·0
		0. 20	·1002	1. 30	·01310	3. 40	72·0	72·0
0. 35	52. 40	0. 52	·1009	3. 45	·00690	9. 40	75·0	76·5
		1. 30	·0998		(†)	21. 40	76·0	76·5
2. 46	50. 15	1. 48	·0996	6. 30	·00605			
3. 5	48. 25	2. 10	·1003	8. 0	·00710			
0. 47	49. 0	2. 25	·0993	9. 0	·00724			
	(†)	3. 15	·0998	11. 0	·00652			
4. 30	49. 0	3. 18	·0998	12. 0	·00724			
7. 10	50. 15	4. 10	·0998	17. 30	·00978			
8. 0	45. 30		(†)					
10. 30	49. 0	9. 1	·1008	19. 30	·01462			
9. 21	50. 10	9. 23	·1000	20. 30	·01502 (†)			

The Declinations are taken from the Sheets of the Photographic Record, except where an Asterisk is attached to the number, in which instances they are inferred from observations made with the Theodolite in the ordinary manner. The symbol (†) denotes that the Curve has been lost in the preceding, and follows the reading. The symbol : attached to a time denotes that the reading will apply equally well to considerable ranges of time near the one employed. A blank denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the ordinates measured by the hour-scale was not at the disposal of the Department.

July 3. Some of the Declinations may possibly require small corrections in this day, both in the results of the Declination and Horizontal Force.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 5		July 5						
h m	° ′ ″	h m		h m		h m		
10. 10	21. 46. 15	7. 29	·1009	21. 40	·01437			
		7. 33	·1003					
12. 46	49. 0	7. 48	·1009					
13. 0	44. 55	8. 3	·1007					
		8. 11	·1012					
14. 50	51. 0	8. 45	·1011					
		9. 2	·1016					
15. 5	48. 30	9. 16	·1009					
		9. 26	·1016					
18. 55	47. 0	10. 5	·1004					
		10. 43	·1004					
19. 50	45. 50	10. 50	·1011					
20. 25	47. 30	11. 5	·1007					
	(†)	11. 13	·1010					
		12. 30	·1014					
		12. 50	·1018					
		13. 3	·1014					
		14. 25	·1015					
		14. 38	·1018					
		15. 55	·1014					
		19. 15	·1024					
		20. 27	·1023					
			(†)					
		21. 40	·1016*					
July 6		July 6		July 6		July 6		
1. 40	21. 51. 40*	1. 40	·1006*	0. 0	·01493	1. 40	67 ·0	67 ·5
3. 40	51. 40*	3. 40	·1016*		(†)	3. 40	73 ·0	73 ·0
9. 40	49. 22*	9. 40	·1010*	4. 5	·00812	9. 40	75 ·0	75 ·5
21. 40	48. 13*	21. 40	·1020*	5. 0	·00610	21. 40	65 ·5	67 ·0
				7. 0:	·00782			
				9. 15	·00706			
				10. 30	·00660			
				12. 0:	·00758			
				14. 30	·01144			
				16. 24	·01550			
				19. 0	·01498			
				21. 0	·01466			
				22. 45	·01488			
				23. 58	·01482			
July 7		July 7		July 7		July 7		
0. 6	21. 51. 10	0. 12	·1014	0. 20	·01482	1. 40	65 ·0	66 ·0
1. 2	52. 30	3. 0	·1024	2. 15	·01330	3. 40	68 ·5	70 ·0
1. 16	55. 35			4. 14	·01008	9. 40	69 ·5	71 ·0
		3. 47	·1026	6. 15	·00610	23. 24	69 ·5	67 ·0
2. 15	52. 30			6. 24	·00640			
		5. 0	·1015	9. 40:	·00582			
4. 54	50. 15	6. 0	·1015	14. 0	·01248			
		7. 40	·1011	15. 28	·01418			
5. 29	51. 30	7. 53	·1025		·01530			
		7. 56	·1021	17. 29	·01414			
7. 35	48. 30	8. 2	·1026	20. 30	·01420			
8. 30	51. 30	8. 31	·1020	22. 32	·01440			
		9. 12	·1024					
9. 15	49. 25	9. 45	·1022					
		10. 30	·1015					
9. 55	51. 5	10. 40	·1017					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 7		July 7						
h m	° ′ ″	h m		h m		h m	°	°
10. 49	21. 50. 0	10. 50	·1023					
11. 8	51. 50	11. 16	·1019					
		11. 52	·1027					
12. 33	49. 30	12. 43	·1032					
13. 44	52. 10	12. 48	·1028					
14. 15	50. 15	12. 56	·1034					
14. 46	57. 40	13. 7	·1034					
		13. 17	·1029					
15. 30	48. 0	13. 37	·1035					
		14. 23	·1034					
17. 24	48. 30	14. 45	·1016					
19. 20	47. 40	15. 20	·1040					
19. 46	49. 0	16. 18	·1034					
20. 7	46. 0	16. 15	·1038					
20. 44	50. 10	16. 52	·1030					
		21. 10	·1024					
21. 15	49. 35	22. 20	·1010					
21. 38	45. 0	22. 53	·1011					
22. 8	47. 5							
22. 30	45. 35							
22. 50	49. 0							
July 8		July 8		July 8		July 8		
0. 0	21. 53. 0	0. 0	·1005	0. 0	·01156	9. 40	72 ·5	73 ·0
				1. 40:	·00828	21. 40	64 ·0	66 ·0
0. 22	55. 30	1. 1	·1000	2. 30	·00618			
				2. 59	·00660			
1. 15	53. 35	1. 57	·0976	4. 40	·00718			
		2. 15	·0987	6. 31:	·00717			
1. 31	54. 40	2. 25	·0982	9. 46:	·00648			
		2. 35	·0988	15. 46	·01520			
3. 28	52. 0			15. 52	·01479			
3. 42	49. 35	3. 20	·0982	21. 57	·01450			
3. 45	51. 0			23. 20	·01442			
4. 0	49. 30	4. 5	·0989	23. 59	·01401			
4. 15	50. 30							
4. 21	49. 0	5. 0	·0985					
5. 8	45. 35							
5. 35	46. 30	5. 25	·0993					
6. 0	50. 0							
8. 32	49. 40	5. 50	·0984					
9. 15	51. 20	6. 7	·0989					
		7. 20	·0990					
14. 10	50. 0							
		13. 20	·1017					
16. 0	52. 0	15. 47	·1016					
17. 35	50. 5	18. 23	·1021					
18. 0	48. 0							
18. 22	50. 0	23. 59	·1008					
20. 5	49. 40							
20. 45	49. 5							
22. 30	51.							
23. 30	49. 15							
23. 59	50. 35							

For the Horizontal and Vertical Forces, [illegible] Corrections [illegible]

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 9		July 9		July 9		July 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 30. 35	0. 0	·1008	1 18	·01310	2. 40	69 ·5	70 ·0
1. 15	54. 0	0. 55	·1009	2 24	·01200	3. 40	71 ·5	73 ·0
	***	1. 40	·0993	4. 10	·00700	9. 40	72 ·5	74 ·0
1. 49	53. 30			4. 15	·00743	21. 40	68 ·5	70 ·0
1. 57	56. 30	4. 0	·1020	5. 15	·00764			
2. 20	53. 0	4. 28	·1019	10. 0	·00700			
	***	4. 40	·1012	11. 45	·00802			
6. 5	47. 50	5. 12	·1019	12. 5	·00810			
8. 0	53. 10		***	17. 0	·01492			
	***	6. 7	·1011	18. 3	·01600			
11. 47	51. 30		***	18. 13	·01530			
12. 15	48. 30	7. 0	·1017	22. 14	·01576			
12. 29	50. 10		***	23. 11	·01518			
	***	11. 28	·1025	23. 59	·01381			
13. 56	47. 15	11. 50	·1045					
14. 39	50. 30	12. 11	·1035					
	***	12. 30	·1030					
15. 45	49. 30	13. 50	·1029					
16. 20	53. 0	14. 20	·1024					
18. 0	49. 15	15. 15	·1030					
19. 39	51. 40	16. 29	·1030					
	***	17. 3	·1037					
21. 13	50. 20	18. 0	·1033					
21. 44	46. 0	21. 48	·1012					
	***	22. 45	·1011					
23. 29	50. 30	23. 56	·1014					
July 10		July 10		July 10		July 10		
0. 0	21. 53. 0	0. 15	·1013	0. 0	·01338	1. 40	72 ·0	73 ·0
	***	0. 26	·1011		·00762	3. 40	74 ·0	75 ·0
1. 40	55. 0	0. 59	·1020	2. 46	·00806	9. 40	70 ·5	77 ·0
1. 47	57. 15		***		***	21. 40	68 ·5	71 ·0
2. 1	55. 0	1. 30	·1013	8. 0	·00822			
	***	1. 44	·1013	10. 0	·00763			
2. 14	57. 35	1. 55	·1007	15. 0	·01254			
	***		***	17. 20	·01600			
3. 46	55. 15	3. 12	·1011	20. 0	·01544			
	***	3. 25	·1018	21. 30	·01516			
4. 15	51. 20	3. 42	·1010	23. 30	·01528			
4. 30	53. 15	4. 16	·1010					
5. 0	52. 0	4. 22	·1021					
5. 15	52. 55		***					
	***	4. 52	·1018					
5. 44	50. 25	5. 3	·1017					
5. 50	51. 15	5. 30	·1020					
6. 1	50. 0	5. 34	·1014					
	***	5. 48	·1015					
6. 46	51. 45	6. 3	·1009					
7. 28	51. 0	6. 33	·1009					
7. 57	46. 30	6. 47	·1026					
8. 25	49. 10	7. 1	·1009					
8. 37	48. 0	7. 42	·1004					
	***	8. 2	·1017					
10. 15	51. 0		***					
11. 37	50. 30	9. 44	·1011					
11. 45	47. 15	10. 17	·1016					
12. 14	48. 35	10. 42	·1010					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 10		July 10		h m		h m	°	°
h m	° ′ ″	h m						
13. 25	21. 48. 0	13. 30	·1014					
14. 6	53. 5	13. 47	·1020					
	***	14. 15	·1018					
15. 6	48. 0	14. 47	·1026					
15. 21	49. 10	15. 35	·1023					
	***	16. 1	·1030					
16. 0	49. 0	17. 2	·1017					
16. 15	46. 30	18. 15	·1032					
16. 30	50. 30	19. 50	·1023					
17. 0	53. 0	20. 45	·1023					
17. 30	52. 0	21. 30	·1018					
17. 55	53. 55		(†)					
18. 10	51. 5							
	***							
19. 10	48. 0							
20. 15	49. 40							
	***							
21. 15	48. 0							
	***							
22. 45	52. 30							
23. 0	49. 20							
23. 30	50. 0							
July 11		July 11		July 11		July 11		
0. 1	21. 52. 40	0. 0	·1016	0. 0	·01538	1. 40	66 ·5	68 ·0
0. 20	57. 15	2. 48	·1045	4. 30	·01605	3. 40	66 ·0	69 ·0
	***	3. 20	·1039	7. 0	·01568	9. 40	66 ·0	67 ·0
3. 3	54. 40	5. 5	·1046	10. 40	·01509	21. 40	64 ·0	65 ·5
3. 15	56. 0		***	15. 27	·01479			
	***	8. 18	·1059	19. 11	·01482			
3. 55	56. 20	8. 30	·1068	21. 45	·01434			
4. 15	54. 20	9. 40	·1052	23. 30	·01281			
6. 15	52. 0	9. 55	·1067					
6. 45	50. 20	10. 23	·1057					
	***	10. 28	·1060					
8. 54	51. 0	11. 10	·1034					
9. 36	48. 0	11. 28	·1040					
9. 55	47. 45		***					
10. 3	45. 25	13. 0	·1043					
10. 21	45. 20	13. 15	·1041					
10. 35	48. 5	14. 54	·1046					
	***	15. 15	·1041					
11. 32	50. 15	19. 28	·1048					
11. 45	49. 25	20. 15	·1044					
	***	22. 20	·1025					
12. 16	50. 30	23. 33	·1020					
12. 52	48. 30							
	***							
14. 15	51. 35							
	***							
16. 40	51. 35							
	***							
17. 48	49. 25							
18. 0	47. 30							
18. 35	49. 0							
18. 55	47. 45							
	***							

The indications are taken from the sheets of the Photographic Record, except wherever an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the dislocation.

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal Force.	Göttingen Mean Solar Time	Vertical Force.	Göttingen Mean Solar Time	Readings of Thermometers.		Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time	Horizontal Force.	Göttingen Mean Solar Time	Vertical Force.	Göttingen Mean Solar Time	Readings of Thermometers.	
July 11							°	°	July 14		July 14		July 14				
h m	′ ″								h m	′ ″			h m				
20. 45	21. 49. 50								6. 45	21. 44. 50	3. 45	·1004	12. 30	[illegible]			
21. 2	48. 45								7. 30	47. 0				[illegible]			
23. 0	50. 35								8. 46	51. 0	5. 56	·1002	16. [illegible]	·01538			
23. 11	51. 35								9. 32	[illegible]	6. 30	[illegible]	18. 30	·01557			
23. 28	50. 0										6. 57	·1006	21. 30:	·01578			
									15. [illegible]	[illegible]	8. 11	·1006	23. 30	·01420			
									15. 5	49. [illegible]	9. 11	·1009					
July 12		July 12		July 12		July 12			16. 27	[illegible]							
1. 40	21. 53. 44*	0. 0	·1034	0. 0	·01259	1. 40	68	·5 70 ·5			14. 57	·1038					
3. 40	51. 20*	2. 30	·1034	1. 35	·01120	3. 40	71	·0 72 ·5	19. 45	48. 15							
9. 40	48. 58*	4. 5	·1023	3. 39	·00672	9. 40	[illegible]	[illegible]	19. 16	44. 30	16. 5	[illegible]					
21. 40	44. 59*	4. 45	·1030	5. 16	·00762	21. 40	[illegible]	[illegible]	20. 14	41. 35	18. 52	·1043					
		5. 15	·1021	6. 26	·00801						19. 45	·1025					
		5. 29	·1012	7. 45	·00804						21. 15	·1015					
				10. 39	·00714				22. 37	46. 30 (†)							
		6. 29	·1020	13. 0:	·00915						22. 58	·101[illegible] (†)					
		10. 17	·1021	16. 17	[illegible] ·01509												
		11. 0	·1025		[illegible] ·01536												
		12. 10	·1020	21. 55:	·01[illegible]09				July 15		July 15		July 15		July 15		
		17. 16	·1036	22. 30	·01533				10. [illegible]	21. 49. 20*	10. 0	·1017	0. 0	·01[illegible]0	10. 0	72	·5 74 ·0
		18. 55	·1040	23. 59	·01218				21. 4[illegible]	48. 38*	21. 40	·1020	2. 0:	·01026	21. 40	65	·0 67 ·0
		23. 59	·1004										3. 15	·00714			
													6. 30	·00730			
													8. 45:	·00700			
													10. 30	·00810			
													14. 0	·01377			
July 13		July 13		July 13		July 13							15. 14	[illegible] ·01580			
0. 48	21. 55. 40	0. 0	·1004	0. 45	·01068	1. 40	[illegible]							[illegible] ·01515			
	***				[illegible] ·00778	3. 40	[illegible]						17. 30	·01538			
1. 45	55. 30	2. 20	·0998	2. 14	[illegible] ·00820	9. 40	76	·0 77 ·0					20. 0	·01540			
	***			5. 16	·00866	21. 40	[illegible]						21. 30	·01517			
4. 29	48. 30	6. 0	·[illegible]	9. 20:	·00790								22. 30	·01503			
	***			11. 10	·00886								23. 35	·01518			
5. 0	49. 15	7. 0	·1004	15. 25	[illegible] ·01628												
5. 12	47. 30				[illegible] ·01580												
	***	10. 10	·1010	18. 14	·01606												
7. 15	44. 15	10. 17	·1005	20. 30	·01597				July 16		July 16		July 16		July 16		
	***	10. 32	·1010	22. 5	[illegible] ·01607				1. 15	21. 53. 50	1. 12	·1021	1. 20	·01508	1. 40	67	·0 68 ·0
8. 15	46. 0				[illegible] ·01486				1. 32	53. 15			2. 35:	·01426	3. 40	[illegible]	·0 [illegible] ·5
10. 0	52. 0	13. 7	·1015	23. 48	·01538				1. 51	56. 55	3. 35	·1032	4. 0	·01145	9. 40	67	·5 68 ·5
14. 15	51. 0								2. 30	53. 0			5. 55	·00652	21. 40	62	·5 63 ·5
	***	17. 31	·1034								4. 54	·1026	8. 0:	·00618			
16. 15	51. 50		***						4. 45	47. 0			10. 15	·00818			
	***	19. 43	·1030								6. 12	·1036	12. 30	·01280			
17. 50	47. 55		***						6. 14	52. 0			16. 0	·01465			
	***	23. 5	·1006								8. 55	·10[illegible]	19. 30	·01450			
20. 45	48. 10	23. 29	·1010						7. 15	51. 20	15. 3	·1039	22. 0	·01408			
21. 35	44. 20	23. 53	·1003						7. 30	50. 35	15. 45	·1044	23. 30	·01370			
	***								7. 59	53. [illegible]	17. 30	·1043					
23. 45	50. 40										20. 30	·1030					
									8. 41	50. 30	22. 17	·1022					
July 14		July 14		July 14		July 14					23. 48	·1019					
0. 0	21. 51. 0	0. 12	·1000	0. 0	·01306	1. 40	[illegible]		9. 53	51. 0							
1. 4	50. 30	1. 0	·1002	2. 30	·01003	3. 40	75	·0 76 ·0	10. 19	48. 0							
	***	1. 12	·0997	3. 30	·00817	9. 40	74	·0 75 ·0									
2. 0	53. 50	1. 30	·1003	3. 55	[illegible] ·00816	23. 0	69	·0 [illegible] ·0	11. 45	50. 55							
2. 22	51. 30	2. 45	·1001		[illegible] ·00812				12. 16	49. 50							
	***	3. 10	·1009	6. 45	·00814				13. 2	52. 30							
4. 39	47. 0	3. 30	·1004	8. 15:	·00798				13. 15	51. 0							
	***	3. 37	·1011	10. 30	·00983				14. 45	50. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

July 15. The time-piece which drives the Declination and Horizontal Force Cylinder was under repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 16								
h m	° ′ ″	h m		h m		h m	°	°
15. 15	21. 51. 40							
	***							
16. 45	47. 0							
17. 30	46. 50							
	(†)							
19. 15	47. 5							
20. 7	48. 0							
20. 31	47. 0							
20. 53	47. 5							
21. 40	43. 30							
23. 35	47. 50							
July 17		July 17		July 17		July 17		
0. 0	21. 49. 0	0. 0	·1016	0. 0	·01338	1 40	67 ·0	68 ·5
0. 28	48. 20	1. 45	·1020	2. 0	·00868	3. 40	67 ·5	69 ·0
0. 38	51. 10	3. 27	·1027	3. 26	·00564	9. 40	68 ·5	69 ·0
0. 46	50. 0	5. 32	·1020		·00686	21. 40	65 ·0	66 ·0
	***	7. 45	·1025	7. 0	·00618			
2. 0	52. 0	8. 47	·1024	12. 30	·00610			
2. 23	50. 10	11. 28	·1023	16. 0:	·00875			
2. 45	51. 35	13. 0	·1027	18. 30	·01185			
	***	18. 17	·1035	21. 0	·01438			
4. 0	49. 40	19. 15	·1037	22. 20:	·01474			
4. 7	48. 15	21. 30	·1032	23. 0	·01435			
5. 16	49. 0	23. 10	·1022					
6. 0	48. 10							
7. 53	51. 0							
10. 17	49. 5							
	***							
11. 30	50. 35							
	***							
14. 17	48. 25							
15. 20	50. 50							
	***							
18. 25	48. 0							
18. 35	45. 30							
	***							
19. 29	47. 35							
	***							
19. 45	45. 0							
	***							
20. 50	46. 35							
21. 27	46. 0							
21. 44	47. 20							
	***							
22. 29	44. 20							
22. 31	46. 10							
22. 44	44. 30							
23. 8	45. 0							
July 18		July 18		July 18		July 18		
0. 0	21. 50. 0	0. 0	·1003	0. 0	·01342	1. 40	68 ·5	70 ·0
1. 0	52. 45		***	2. 0	·00912	3. 40	72 ·0	73 ·0
4. 35	49. 25	1. 14	·0994	2. 45	·00721	9. 40	71 ·0	72 ·0
8. 15	48. 15	2. 39	·1004	4. 25	·00746	21. 40	63 ·5	64 ·5
11. 35	46. 0	4. 20	·1000		·00820			
12. 45	47. 40	5. 15	·1004	8. 0	·00750			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 18		July 18		July 18				
h m	° ′ ″	h m		h m		h m	°	°
14. 12	21. 46. 0	6. 5	·0998	10. 0	·00698			
15. 1	43. 30		***	12. 0:	·00850			
16. 30	46. 0	9. 0	·1007	13. 30	·01098			
18. 34	41. 20	13. 5	·1010	15. 30	·01536			
19. 51	41. 0	13. 35	·1014	15. 32	·01484			
21. 10	41. 15	13. 47	·1011	23. 0	·01462			
21. 21	46. 35	14. 0	·1016					
21. 45	42. 15	15. 47	·1014					
23. 0	48. 15	17. 32	·1022					
23. 20	48. 40	17. 40	·1033					
			***					
		19. 40	·1039					
		21. 11	·1039					
		21. 23	·1029					
			***					
		22. 57	·1013					
		23. 20	·1020					
July 19		July 19		July 19		July 19		
0. 2	21. 49 5.	0. 0	·1023	0. 0	·01500	1. 40	66 ·0	67 ·0
	***	0. 46	·1034	2. 2	·01483	3. 40	67 ·0	68 ·0
2. 0	53. 0	1. 0	·1032		***	9. 40	62 ·0	63 ·5
	***	1. 5	·1039	4. 50	·01410	21. 40	64 ·0	65 ·0
4. 30	51. 10		***	5. 30	·01372			
4. 44	53. 0	1. 29	·1034		***			
4. 55	51. 15		***	7. 28	·01230			
	***	2. 2	·1040		***			
6. 15	51. 0		(†)	9. 8	·01310			
6. 42	55. 10	3. 12	·1041		***			
	***	3. 25	·1047	10. 40	·01208			
7. 44	49. 0		***	10. 52	·01220			
	***	3. 38	·1040	11. 14	·01192			
8. 0	49. 20		***		***			
8. 16	45. 30	3. 47	·1047	12. 6	·01370			
8. 30	47. 30		***	12. 27	·01400			
8. 48	40. 0	4. 8	·1038	12. 42	·01348			
9. 1	39. 25		***	12. 58	·01420			
9. 14	42. 30	4. 13	·1055		·01350			
9. 30	35. 0	4. 17	·1042		***			
9. 39	39. 0	4. 20	·1051	13. 27	·01408			
	***		***	13. 34	·01383			
10. 7	39. 0	4. 33	·1036	13. 58	·01398			
10. 20	34. 50	4. 47	·1065	14. 11	·01362			
10. 37	47. 45	5. 2	·1042	14. 27	·01382			
11. 9	32. 20	5. 12	·1037		***			
11. 21	38. 40		***	15. 55	·01374			
11. 31	35. 25	5. 35	·1049		***			
11. 45	37. 50		***	16. 13	·01328			
	***	5. 39	·1043		***			
12. 9	37. 0	5. 43	·1053	17. 45	·01439			
12. 30	43. 0	5. 57	·1060		***			
12. 44	56. 30		***	18. 44	·01404			
12. 59	46. 0	6. 13	·1030	19. 12	·01359			
13. 9	44. 10		***		***			
	***	6. 30	·1032	20. 14	·01439			
13. 37	48. 0	6. 55	·1048	22. 10	·01490			
13. 47	46. 55	7. 2	·1067	23. 27	·01422			
14. 14	48. 30		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 19		July 19						
h m	° ′ ″	h m		h m		h m	°	°
14. 29	21. 44. 30	7. 27	·1034					
14. 54	48. 10	7. 32	·1044					
	***	7. 38	·1038					
15. 30	46. 40	7. 46	·1049					
15. 40	48. 30		***					
15. 47	48. 0	8. 17	·1031					
16. 0	55. 20		***					
16. 32	46. 45	8. 42	·1014					
16. 46	46. 45	9. 7	·1024					
17. 25	40. 50	9. 20	·0995					
17. 30	43. 30	9. 30	·1004					
17. 35	42. 0	9. 45	·0986					
	***	10. 3	·0985					
18. 9	47. 0	10. 10	·0978					
18. 16	44. 10		***					
	***	10. 25	·0976					
18. 59	56. 0	10. 29	·0987					
19. 10	56. 10	10. 40	·0997					
	***	10. 45	·0992					
19. 30	54. 20	11. 0	·1018					
19. 45	51. 25	11. 15	·0990					
20. 5	50. 0	11. 20	·0998					
20. 16	53. 15	11. 32	·0998					
	***	11. 40	·0990					
20. 40	49. 35	11. 47	·0989					
	***	12. 0	·1000					
21. 25	51. 50	12. 30	·0981					
21. 45	50. 10	12. 40	·0962					
22. 5	50. 15	13. 4	·1012					
22. 33	54. 0	13. 25	·1019					
22. 43	54. 0	13. 40	·1013					
		13. 48	·1019					
		14. 5	·1011					
		14. 15	·1000					
		14. 32	·1011					
			***					
		15. 5	·0998					
			***					
		15. 42	·1000					
		15. 48	·0991					
			***					
		16. 25	·0990					
			***					
		17. 30	·1024					
		17. 35	·1021					
		17. 45	·1031					
		17. 56	·1024					
		18. 13	·1024					
		18. 16	·1018					
		18. 27	·1019					
		18. 33	·1006					
		18. 40	·1009					
		19. 0	·0971					
		19. 17	·0971					
		19. 23	·0983					
		19. 28	·0978					
		19. 31	·0990					
		19. 38	·0984					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		July 19						
h m	° ′ ″	h m		h m		h m	°	°
		20. 28	·0994					
		20. 35	·0990					
			***					
		21. 0	·0993					
			***					
		21. 40	·0983					
		22. 30	·0984					
		22. 42	·0973					
		22. 47	·0973					
			(†)					
July 20		July 20		July 20		July 20		
1. 40	21. 47. 38*	1. 40	·0985*	0. 0	·01401	1. 40	65 ·5	67 ·0
3. 40	52. 9*	3. 40	·0990	1. 34	·01262	3. 40	67 ·5	69 ·0
9. 40	47. 31*	9. 40	·1006	2. 32	·01084	9. 40	69 ·5	70 ·5
21. 40	45. 12*	21. 40	·0998*		(†)	21. 40	65 ·0	66 ·5
				5. 14	·00679			
				6. 31	·00711			
				7. 0	·00762			
				10. 16	·00671			
				10. 29	·00624			
				11. 0	·00619			
				12. 30	·00660			
				14. 27	·00810			
					(†)			
				16. 42	·01230			
				18. 1	·01508			
					·01460			
				21. 44	·01506			
				22. 31	·01514			
				23. 1	·01478			
July 21		July 21		July 21		July 21		
0. 0	21. 54. 5	0. 0	·0992	0. 0	·01391	1. 40	67 ·5	69 ·0
0. 36	56. 35	0. 15	·0993	1. 40	·01138	3. 40	72 ·0	73 ·0
1. 1	55. 10		***	3. 29	·00682	9. 40	71 ·0	74 ·0
1. 15	56. 10	0. 33	·0981	3. 31	·00728	23. 50	67 ·0	68 ·5
	***	0. 43	·0990	7. 40	·00806			
3. 30	56. 10		***	10. 29	·00710			
4. 25	54. 55	1. 0	·0984	13. 45	·00943			
4. 48	52. 0	1. 15	·0993	15. 1	·01178			
6. 15	51. 20	1. 28	·0991	16. 47	·01542			
7. 1	50. 30	1. 45	·0997		·01530			
8. 29	44. 25		***	20. 14	·01482			
8. 57	47. 55	2. 12	·0996	22. 15	·01530			
9. 20	42. 20	2. 40	·1004	23. 3	·01479			
9. 44	42. 0	2. 50	·0993					
10. 5	46. 25	3. 7	·1006					
11. 14	49. 25	3. 45	·0998					
11. 22	48. 55	3. 47	·1004					
12. 1	49. 40	3. 55	·1000					
12. 19	48. 0	4. 35	·0997					
12. 55	49. 45	4. 48	·1002					
13. 36	44. 0	5. 15	·0998					
14. 1	50. 20		***					
14. 34	46. 0	5. 55	·1005					
	***	6. 2	·1000					
15. 10	46. 55	6. 15	·1005					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 21		July 21						
h m	° ′ ″	h m		h m		h m	°	°
16. 8	21. 44. 5	6. 45	·1006					
16. 45	48. 0	7. 4	·1015					
	***	7. 31	·1015					
18. 0	48. 30	7. 58	·1005					
18. 14	51. 20		***					
18. 44	48. 15	8. 35	·1018					
18. 59	51. 0	8. 44	·1025					
	***	8. 53	·1019					
20. 14	49. 30	9. 3	·0997					
	***	9. 35	·1021					
20. 50	52. 15	10. 12	·1005					
21. 0	51. 30	11. 48	·1011					
22. 30	54. 30		***					
	(†)	12. 40	·1007					
		13. 15	·1027					
		13. 30	·1022					
		13. 42	·1029					
		14. 31	·1010					
		14. 35	·1014					
		14. 42	·1009					
		14. 50	·1012					
		15. 5	·1008					
		16. 0	·1016					
			***					
		16. 42	·1013					
			***					
		18. 12	·1018					
		18. 18	·1011					
		19. 10	·1004					
		19. 16	·1009					
		19. 27	·1008					
			***					
		20. 2	·1013					
		21. 5	·1011					
		21. 35	·1005					
		22. 43	·1000					
			(†)					
July 22		July 22		July 22		July 22		
0. 0	21. 51. 25	0. 0	·1009	0. 0	·01342	9. 40	·76	·77 ·0
1. 58	58. 15		***	1. 46	·01020	21. 40	·71	·72 ·5
2. 10	54. 25	1. 25	·1000	2. 44	{·00800			
2. 29	53. 10	1. 32	·0991		{·00835			
2. 45	55. 0	1. 42	·1001		***			
3. 15	53. 30	1. 55	·1002	3. 31	·00878			
3. 39	53. 30	2. 12	·0984	10. 0	·00780			
	(†)	2. 25	·0988	14. 1	·01125			
6. 10	52. 30	2. 33	·1003	16. 51	·01620			
6. 48	49. 40		***	16. 58	·01582			
7. 10	50. 0	3. 17	·1012	22. 17	{·01602			
7. 31	42. 15	3. 32	·1006		{·01450			
7. 45	45. 30		***	23. 59	·01364			
8. 1	44. 50	3. 47	·1008					
8. 44	50. 25	3. 52	·1011					
11. 46	49. 0		***					
12. 18	45. 35	4. 23	·1004					
12. 45	46. 30	4. 30	·1010					
13. 30	53. 55	5. 18	·1017					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 22		July 22						
h m	° ′ ″	h m		h m		h m	°	°
13. 57	21. 54. 50	5. 32	·1012					
14. 6	44. 0	5. 58	·1013					
	***	6. 5	·1018					
15. 29	49. 55	6. 15	·1014					
18. 0	48. 0	6. 42	·1015					
	***	7. 2	·1023					
19. 31	49. 0	7. 20	·1015					
20. 25	55. 40	7. 35	·1036					
21. 0	54. 35	8. 0	·1018					
22. 20	53. 35	8. 5	·1021					
22. 44	55. 0	8. 48	·1004					
23. 59	54. 40		***					
		11. 0	·1013					
		12. 12	·1016					
		12. 57	·1025					
		13. 17	·1017					
		13. 47	·1013					
		15. 32	·1016					
		15. 47	·1019					
		16. 5	·1016					
		17. 15	·1020					
		19. 10	·1015					
			***					
		20. 5	·1003					
		21. 35	·1011					
		22. 58	·1008					
			***					
		23. 59	·1010					
July 23		July 23		July 23		July 23		
0. 0	21. 54. 40	0. 0	·1010	1. 2	·01259	1. 40	73 ·0	74 ·0
1. 5	54. 0	0. 50	·1004	3. 15	·00816	3. 40	74 ·5	76 ·0
1. 30	52. 35		***		***	9. 40	73 ·0	74 ·0
2. 10	53. 0	2. 36	·1015	3. 46	{·00799	21. 40	66 ·0	67 ·5
4. 50	50. 0	3. 32	·1015		{·00938			
5. 37	50. 10		***	6. 25:	·00810			
6. 9	49. 30	5. 20	·1002	9. 30:	·00878			
8. 0	50. 0		***	12. 30	·01126			
11. 15	49. 0	7. 5	·1005	15. 29	·01584			
11. 23	50. 35		***	15. 32	·01545			
11. 32	49. 50	8. 7	·1009	20. 46	·01548			
11. 59	51. 35		***	21. 17	·01540			
12. 50	47. 50	11. 5	·1019	23. 59	·01590			
	***	11. 25	·1022					
15. 31	49. 15	11. 40	·1028					
18. 15	46. 40	13. 35	·1017					
21. 25	48. 25	14. 15	·1021					
23. 59	54. 0	15. 30	·1023					
		16. 45	·1024					
		18. 0	·1023					
		19. 0	·1023					
		21. 10	·1017					
		23. 30	·1015					
		23. 59	·1016					
July 24		July 24		July 24		July 24		
0. 0	21. 54. 5	0. 0	·1017	1. 0	·01554	1. 40	68 ·5	70 ·0
0. 30	55. 35	1. 40	·1015	3. 1	·01494	3. 40	69 ·0	70 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 24		July 24		July 24		July 24	°	°
h m	° ′ ″	h m		h m		h m		
0. 44	21. 58. 0	2. 45	·1019	7. 20:	·01081	0. 40	69 ·0	73 ·0
3. 9	56. 20		***	8. 44	·01012	21. 40	63 ·5	65 ·0
4. 0	54. 0	3. 20	·1016	9. 8	·01010			
5. 45	51. 0			9. 17	·00996			
7. 46	50. 0	4. 30	·1019	9. 45	·01014			
	***			13. 30	·01288			
8. 10	51. 10	5. 50	·1014	15. 15	·01360			
8. 55	48. 30		***	18. 13	·01406			
9. 14	51. 35	8. 22	·1024					
9. 36	50. 15	8. 48	·1020	21. 29	·01245			
9. 48	51. 40	8. 59	·1025	23. 13	·01260			
10. 8	49. 40	9. 8	·1044					
10. 35	49. 0	9. 20	·1027					
	***	9. 46	·1020					
11. 45	50. 50	10. 4	·1014					
12. 30	49. 0	10. 16	·1018					
13. 15	49. 40	10. 42	·1020					
13. 36	51. 20	10. 50	·1017					
14. 15	49. 0	11. 7	·1023					
15. 14	49. 30	11. 45	·1018					
15. 56	53. 0	13. 25	·1016					
16. 11	52. 50	14. 12	·1024					
17. 13	48. 30	14. 35	·1014					
18. 13	47. 35		***					
	***	15. 40	·1014					
22. 7	51. 0	16. 33	·1023					
23. 0	55. 5	17. 30	·1019					
		18. 5	·1022					
		20. 0	·1012					
		23. 0	·1014					
		23. 7	·1009					
July 25		July 25		July 25		July 25		
0. 0	21. 56. 30	0. 0	·1014	0. 0	·01246	1. 40	67 ·5	69 ·0
1. 1	58. 0		***	3. 58	·00906	3. 40	68 ·5	70 ·0
2. 46	54. 15	1. 20	·1010	8. 0	·00540	9. 40	68 ·0	70 ·0
3. 50	55. 20		***	9. 0:	·00540	21. 40	64 ·0	65 ·0
4. 20	55. 0	2. 15	·1014	13. 30	·00909			
	***		***	15. 32	·01208			
5. 32	51. 10	3. 12	·1011	17. 10	·01363			
	***	3. 21	·1022	17. 13	·01318			
8. 30	48. 5	3. 29	·1020	21. 25	·01362			
9. 55	49. 15	3. 37	·1023	23. 57	·01246			
10. 47	46. 5	3. 43	·1022					
11. 20	46. 30	3. 56	·1025					
11. 43	48. 25	4. 18	·1022					
11. 55	47. 0	4. 42	·1011					
12. 15	47. 50	5. 0	·1014					
12. 38	50. 35	5. 13	·1009					
13. 7	48. 45	5. 20	·1012					
14. 50	45. 10		***					
15. 30:	50. 0	6. 27	·1012					
17. 28	45. 25	7. 12	·1017					
	***	7. 15	·1019					
18. 31	46. 30	7. 25	·1019					
18. 45	45. 25		***					
19. 59	45. 30	7. 47	·1027					
20. 56	47. 45	8. 25	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 25		July 25						
h m	° ′ ″	h m		h m		h m	°	°
21. 2	21. 46. 0	8. 31	·1016					
23. 53	53. 10	8. 35	·1020					
		9. 0	·1023					
		9. 43	·1019					
		10. 0	·1024					
		10. 15	·1020					
		10. 35	·1023					
		11. 15	·1014					
		12. 3	·1023					
		12. 42	·1014					
		13. 53	·1022					
		14. 0	·1020					
		14. 40	·1018					
		14. 58	·1020					
		15. 15	·1012					
		16. 0	·1023					
		17. 0	·1022					
		18. 30	·1012					
		20. 50	·1017					
		21. 0	·1019					
		21. 2	·1016					
		21. 10	·1019					
		23. 57	·1024					
July 26		July 26		July 26		July 26		
0. 0	21. 53. 15	0. 0	·1021	0. 0	·01199	1. 40	65 ·0	67 ·0
0. 32	55. 0	0. 18	·1018	2. 44	·00980	3. 40	67 ·0	67 ·5
	***	0. 29	·1023	4. 45	·00826	9. 40	66 ·0	67 ·0
2. 22	56. 0	0. 50	·1019	6. 55	·00780	21. 40	64 ·5	66 ·5
3. 36	53. 25	1. 12	·1022	10. 0	·00714			
	***	1. 33	·1012	15. 40	·00806			
7. 56	49. 35	1. 43	·1019	20. 10	·00848			
9. 46	51. 0	2. 27	·1022	22. 0:	·00570			
11. 5	51. 0	2. 42	·1015	23. 59	·00516			
	***	2. 47	·1020					
14. 59	48. 35	4. 1	·1030					
15. 29	50. 35	4. 11	·1026					
15. 44	50. 5	4. 18	·1033					
16. 17	51. 25	4. 25	·1026					
17. 9	49. 50	4. 38	·1027					
18. 0	48. 0	4. 49	·1022					
20. 14	48. 25	5. 1	·1027					
20. 28	46. 45	5. 35	·1026					
20. 31	48. 0	5. 47	·1030					
	***	5. 58	·1023					
22. 52	47. 30	6. 35	·1029					
	***		***					
21. 52	50. 50	7. 18	·1026					
22. 13	49. 35	8. 30	·1033					
	***	8. 43	·1028					
23. 31	50. 30	11. 7	·1032					
		12. 3	·1028					
		13. 11	·1030					
		13. 16	·1030					
		14. 30	·1030					
		14. 45	·1026					
		15. 5	***					
		16. 16	·1024					

For the Horizontal and Vertical Forces corresponding to the above Observations.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	July 26 h m		h m		h m	°	°
		19. 5	·1023					
		22. 7	·1010					
		22. 30	·1012 (†)					
July 27		July 27		July 27		July 27		
0. 45	21. 54. 45	0. 49	·1021	0. 55	·00458	1. 40	68 ·0	70 ·0
2. 35	57. 0	2. 21	·1010	3. 25	·00580	3. 40	69 ·5	71 ·0
5. 0	52. 30	2. 31	·1014	6. 46	·00627	9. 40	69 ·5	72 ·0
5. 40	52. 35	2. 45	·1009 ***	8. 39	·00614	21. 40	66 ·0	67 ·5
5. 55	51. 5			10. 26	·00588			
7. 27	51. 25	3. 48	·1007	12. 30	·00708			
8. 16	49. 15	4. 2	·1016 ***	14. 32	·00861			
8. 37	47. 0			19. 45	·01486			
10. 15	50. 20 ***	4. 54	·1009	19. 54	·01450			
		5. 5	·1014 ***	21. 37	·01466			
11. 45	51. 10			22. 30:	·01468			
12. 20	49. 35	5. 47	·1007	23. 46	·01376			
13. 1	52. 10	6. 0	·1014					
14. 18	48. 0	6. 40	·1016					
15. 16	52. 35	7. 5	·1010					
16. 0	49. 50	8. 0	·1022					
18. 5	49. 30	8. 5	·1030					
20. 0	47. 10	8. 32	·1020					
20. 13	48. 15	9. 15	·1013					
20. 22	46. 35	10. 25	·1017					
20. 59	45. 30	10. 32	·1013					
23. 1	51. 45	11. 12	·1020					
23. 13	51. 0	11. 20	·1017					
23. 16	52. 30	11. 50	·1021					
		12. 12	·1018					
		13. 0	·1024					
		14. 47	·1012					
		15. 10	·1013					
		15. 47	·1020					
		18. 15	·1023					
		21. 0	·1019					
		22. 20	·1010					
		23. 20	·1011					
July 28		July 28		July 28		July 28		
0. 1	21. 53. 30 ***	0. 0	·1005 ***	0. 0	·01365	1. 40	69 ·5	71 ·0
				1. 19	·01210	3. 40	70 ·0	71 ·5
1. 8	56. 10 ***	1. 0	·1005	4. 1	·00665	9. 40	72 ·0	73 ·5
		1. 5	·1014	4. 14	·00686	22. 55	65 ·0	66 ·0
3. 2	53. 40			10. 16	·00642			
3. 29	51. 55	1. 30	·1012	13. 31	·00764			
5. 4	49. 0	1. 33	·1007	18. 59	{·01486			
7. 15	48. 0	1. 41	·1012		{·01440			
8. 33	50. 15	2. 18	·1014	22. 45	·01456			
9. 28	39. 25	2. 25	·1019	23. 20	·01408			
10. 35	48. 15	2. 30	·1014					
12. 8	48. 0	2. 35	·1020					
12. 22	46. 0	3. 17	·1015					
12. 35	48. 30	3. 25	·1007					
12. 59	47. 0	3. 35	·1013					
13. 16	47. 40	4. 25	·1015					
14. 45	45. 25	5. 0	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 28 h m	° ′ ″	July 28 h m		h m		h m	°	°
15. 31	21. 47. 30	5. 58	·1010					
16. 15	47. 35 ***	7. 22	·1015					
		7. 27	·1026					
18. 0	43. 30 ***	7. 30	·1024					
		7. 35	·1036					
18. 35	43. 10	7. 40	·1026					
18. 43	44. 30	7. 46	·1024					
18. 53	43. 20	7. 57	·1028					
19. 0	44. 50	8. 5	·1025					
19. 10	53. 20	8. 15	·1031					
19. 36	47. 30	8. 24	·1030					
19. 47	46. 35	8. 28	·1024					
20. 30	47. 0	8. 32	·1023					
21. 2	52. 50	8. 40	·1015					
21. 30	53. 0	8. 45	·1018					
22. 28	55. 40	9. 0	·1015					
22. 31	54. 0	9. 3	·1003					
22. 45	55. 5	9. 15	·1019					
23. 15	54. 55	10. 0	·1014					
		10. 5	·1006 ***					
		10. 47	·1008					
		11. 18	·1016					
		12. 0	·1012					
		12. 30	·1019					
		12. 50	·1033					
		13. 30	·1018					
		14. 0	·1016					
		14. 17	·1022					
		14. 30	·1019					
		15. 50	·1024 ***					
		18. 10	·1027 ***					
		18. 50	·1023 ***					
		19. 28	·1009					
		19. 42	·1010					
		20. 0	·0994					
		20. 25	·0990					
		20. 50	·0996					
		21. 20	·1000					
		21. 31	·0992					
		21. 40	·0989					
		22. 11	·0992 ***					
		22. 40	·0995					
		22. 57	·0980					
		23. 5	·0995					
		23. 17	·0994					
July 29		July 29		July 29		July 29		
0. 0	21. 59. 35 ***	0. 0	·0995 ***	0. 0	·01311 ***	9. 40	74 ·0	76 ·0
0. 29	22. 3. 50					21. 40	70 ·0	71 ·0
0. 35	2. 30	0. 48	·0988 ***	1. 32	·01080 ***			
0. 59	6. 35 ***							
1. 30	22. 0. 0 ***	0. 55	·0974 ***	3. 1	{·00700 {·00735 ***			
		1. 27	·0968					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 29		July 29		July 29		h m	°	°
h m	° ′ ″	h m		h m				
2. 1	21. 57. 40	1. 33	·0992	5. 24	·00806			
	***	1. 35	·0985	7. 58	·00766			
2. 25	22. 0. 0	1. 43	·0996	8. 1	·00740			
2. 31	21. 58. 0		***	9. 46	·00711			
2. 46	58. 35	2. 7	·0988	13. 0	·00816			
3. 1	57. 25	2. 16	·1003	17. 0	·01281			
4. 0	56. 15	2. 24	·0996	19. 1	·01542			
4. 30	53. 35		***	19. 11	·01504			
4. 41	54. 30	2. 33	·0997	20. 44	·01520			
5. 0	53. 0	2. 42	·0983	22. 43	·01514			
7. 44	47. 0	2. 57	·1000	23. 59	·01405			
8. 44	48. 0	3. 5	·0992					
11. 0	44. 50		***					
11. 30	39. 20	3. 42	·0996					
11. 44	39. 25	3. 58	·0984					
	***		***					
12. 29	44. 35	4. 40	·0974					
	***	4. 45	·0982					
13. 0	44. 20	4. 52	·0975					
13. 15	42. 40	5. 2	·0978					
14. 0	46. 0	5. 12	·0969					
16. 10	48. 30	5. 17	·0979					
18. 31	45. 10	5. 20	·0973					
	***	5. 30	·0988					
20. 0	42. 30	5. 54	·0985					
20. 30	43. 10	6. 2	·0990					
22. 10	50. 10	6. 7	·0996					
23. 59	52. 30	6. 12	·0991					
			***					
		7. 45	·0992					
		7. 50	·1003					
		7. 52	·1000					
			***					
		9. 55	·0997					
		10. 1	·1002					
		11. 43	·1006					
		11. 55	·0999					
		12. 13	·1011					
		12. 20	·1011					
		12. 32	·1000					
		13. 1	·0998					
		13. 17	·0989					
		13. 40	·0987					
		13. 45	·0997					
		15. 30	·0999					
		19. 12	·1012					
		21. 0	·0992					
		21. 8	·0986					
		21. 18	·0985					
		21. 32	[illegible]					
		22. 45	[illegible]					
			(†)					
July 30		July 30		July 30		July 30		
0. 0	21. 52. 35	0. 0	·1021	0. 30	·01324	1. 40	72 ·5	74 ·5
2. 10	56. 35		[illegible]	3. 13	{·00750	3. 40	74 ·0	75 ·0
	***	2. 6	·1023		{·00786	9. 40	74 ·0	74 ·5
2. 45	55. 35	2. 32	·1014	6. 46	·00844	21. 40	69 ·5	68 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 30		July 30		July 30		h m	°	°
h m	° ′ ″	h m		h m				
3. 0	21. 53. 50	2. 43	·1022	8. 56:	·00786			
3. 52	51. 40	2. 50	·1012	11. 10	·00920			
5. 52	52. 0		***		{·01548			
6. 17	46. 35	5. 12	·1018	15. 2	{·01516			
6. 59	50. 10	5. 18	·1026	18. 34	·01485			
7. 45	49. 30		***	21. 30	·01476			
8. 20	48. 5	5. 55	·1006	23. 13	·01524			
9. 42	49. 0	6. 13	·1015					
10. 0	45. 15	6. 20	·1029					
10. 25:	47. 30	6. 57	·1017					
11. 0	41. 0	7. 56	·1021					
11. 25	47. 50	8. 30	·1012					
11. 44	45. 10	9. 53	·1014					
12. 2	46. 15	10. 3	·1022					
12. 52	43. 45	10. 47	·1017					
13. 37	46. 20		***					
14. 30:	49. 45	13. 23	·1022					
15. 20	46. 10	13. 35	·1026					
17. 50	48. 0	13. 50	·1022					
19. 0	44. 20	15. 2	·1028					
20. 0	45. 0	15. 42	·1022					
	(†)	18. 45	·1028					
		19. 0	·1016					
		19. 52	·1012					
			(†)					
July 31		July 31		July 31		July 31		
0. 0	21. 55. 30	0. 25	·0992	0. 0	·01419	1. 40	69 ·5	71 ·0
0. 31	55. 15	0. 32	·0990	2. 41	·01178	3. 40	71 ·0	73 ·0
1. 15	56. 55		***	5. 35:	·00752	9. 40	70 ·8	73 ·5
	***	3. 0	·1004	7. 34	·00758	21. 40	63 ·5	65 ·5
2. 30	56. 15	3. 18	·0998	9. 28:	·00720			
	***		***	10. 59	·00864			
4. 36	52. 20	3. 50	·1006	13. 58	{·01486			
5. 14	49. 20	4. 15	·1000		{·01430			
5. 44	48. 55	4. 30	·1007	17. 10	·01492			
6. 0	50. 0		***	19. 49	·01465			
7. 15	49. 0	5. 0	·0996	21. 29	·01480			
10. 14	48. 45		***	21. 58	·01478			
10. 45	50. 15	5. 20	·1010	22. 30:	·01425			
11. 45	48. 30	5. 31	·1004	23. 26	·01322			
12. 5	49. 20		***					
12. 46	48. 0	6. 30	·1006					
14. 0	49. 35	6. 42	·1021					
14. 34	48. 34	6. 54	·1010					
14. 52	50. 0	7. 13	·1015					
15. 45	47. 45	7. 28	·1011					
16. 14	51. 30		***					
16. 21	50. 35	10. 7	·1014					
16. 26	53. 30	10. 48	·1012					
16. 32	52. 5	11. 2	·1021					
16. 45	53. 20	11. 20	·1019					
17. 5	47. 20	11. 32	·1022					
18. 40	48. 10		***					
18. 52	47. 0	11. 55	·1017					
19. 2	48. 40		***					
19. 41	46. 30	13. 26	·1014					
19. 52	48. 30		***					

For the Horizontal and Vertical Forces, in reading readings due to terrestrial forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 31		July 31						
h m	° ′ ″	h m		h m		h m		
21. 16	21. 48. 25	15. 40	·1030					
21. 30	47. 30							
23. 8	51. 15	16. 13	·1018					
		17. 20	·1034					
		18. 0	·1031					
		18. 28	·1028					
		19. 15	·1029					
		19. 35	·1018					
		20. 0	·1018					
		21. 0	·1027					
		22. 47	·1023					
		22. 58	·1017					
		23. 25	·1011					
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 8	21. 51. 35	0. 0	·0989	0. 11	·01228	2. 0	71 ·0	71 ·5
1. 30	53. 20	1. 27	·0984	1. 6	·01028	3. 40	74 ·0	75 ·0
7. 45	47. 0		***	2. 29	·00692	9. 40	72 ·0	73 ·5
10. 40	48. 10	2. 45	·0993	3. 14	·00721	21. 40	69 ·5	71 ·0
13. 30	48. 15		***	4. 46	{·00740 ·00810			
13. 45	46. 40	5. 0	·0997					
14. 6	49. 0	7. 30	·1003	6. 37	·00758			
15. 2	43. 10		***	8. 31	·00750			
16. 0	46. 0	12. 12	·1007	10. 35:	·00700			
20. 26	45. 15	13. 47	·1017	11. 45	·00771			
21. 38	44. 5	14. 15	·1022	14. 32	·00918			
23. 59	50. 0	15. 10	·1012	18. 0	·01145			
		18. 35	·1014	20. 14	·01384			
		19. 30	·1002	21. 11	·01420			
		21. 2	·1000	22. 15	·01456			
		22. 27	·0989 (†)	22. 44	·01428			
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 0	21. 50. 5	0. 0	·0991	0. 0	·01310	1. 40	72 ·0	73 ·5
0. 52	53. 5	0. 35	·0992	2. 20	·01040	3. 40	73 ·5	75 ·0
3. 0	54. 0	1. 35	·0999	4. 0	{·00747	9. 40	73 ·5	75 ·0
5. 5	49. 50	2. 26	·0995		·00794	21. 40	66 ·5	67 ·5
6. 21	48. 0	2. 32	·0989	6. 5	·00788			
7. 8:	49. 45	2. 50	·0998	10. 31	·00746			
9. 20	48. 20		***	11. 45	·00780			
10. 51	49. 30	4. 17	·0994	13. 5	·01098			
11. 20	46. 0	4. 30	·0980	13. 30	·01122			
12. 17	49. 30	4. 57	·0985	13. 54	{·01320 ·01480			
13. 0	47. 20	5. 12	·0984					
13. 16	57. 0	5. 50	·0990	18. 57	·01440			
14. 0	48. 20	6. 0	·0987	22. 2	{·01482 ·01385			
15. 0	46. 20	6. 32	·0983					
16. 15	48. 0		***	22. 45	·01380			
22. 15	43. 30 (†)	7. 0	·0990					
		7. 12	·0995					
		7. 57	·0990					
		8. 7	·0988					
		9. 13	·0999					
		11. 15	·1000					
		13. 0	·1002					
		13. 20	·1009					
		14. 30	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Aug. 2						
h m	° ′ ″	h m		h m		h m		
		15. 13	·1006					
		18. 30	·1011					
		19. 5	·1002					
		20. 10	·1000 (†)					
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 0	21. 50. 55	0. 0	·0990	0. 0	·01302	1. 40	70 ·5	71 ·5
1. 45	51. 0		***	1. 46	·01094	3. 40	71 ·0	74 ·0
3. 0	52. 10	2. 47	·0988	3. 26	·00769	9. 40	71 ·0	73 ·0
4. 20	51. 40		***	6. 25	·00800	21. 40	65 ·0	67 ·0
6. 30	47. 35	3. 25	·0990	8. 15	·00780			
7. 50	48. 30		***	9. 45	·00748			
8. 28	47. 35	3. 48	·0998	13. 26	·01098			
8. 40	48. 30	4. 11	·0986	15. 12	·01362			
11. 0	48. 30	4. 16	·1000	15. 56	{·01501 ·01478			
12. 15	43. 10		***					
13. 0	46. 0	4. 59	·0998	20. 25	·01478			
13. 30	44. 50	5. 15	·0991	22. 45	·01504			
13. 51	45. 10	5. 25	·0997	23. 46	·01404			
14. 20	50. 30		***					
14. 38	51. 30	5. 58	·0994					
15. 14:	48. 0	6. 5	·1000					
16. 0	48. 40	6. 12	·0995					
16. 31	46. 30	6. 34	·0996					
19. 59	43. 35	6. 57	·0992					
21. 30	44. 45 (†)	7. 5	·0997					
			***					
		8. 15	·0997					
		8. 47	·0994					
		9. 15	·1002					
		9. 35	·0996					
		10. 12	·1002					
			***					
		11. 10	·1009					
		11. 15	·1005					
		11. 55	·1002					
		12. 12	·1014					
		12. 30	·1007					
			***					
		14. 27	·1008					
		14. 53	·1012					
		15. 8	·1013					
		15. 35	·1009					
		17. 30	·1016					
		18. 15	·1017					
		19. 18	·1010					
		20. 30	·1010					
		21. 27	·0998 (†)					
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 0	21. 51. 20	0. 8	·1000	0. 0	·01400	1. 40	68 ·0	71 ·0
1. 2	54. 0	0. 35	·1000	1. 44:	·01128	3. 40	71 ·7	73 ·5
4. 0	53. 5	0. 52	·0997	3. 18	{·00735 ·00770	9. 40	72 ·0	75 ·0
5. 0	50. 20	1. 42	·0998			23. 0	67 ·5	69 ·2
6. 55	48. 30	1. 47	·0990	5. 4	·00806			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. as corrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. as corrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 4		Aug. 4		Aug. 4				
h m	° ′ ″	h m		h m		h m	°	°
7. 45	21. 45. 50	2. 31	·0002	8. 15	·00804			
8. 27	48. 0		***	9. 13	·00770			
	***	3. 40	·0988	10. 25	·00786			
9. 29	48. 5	3. 47	·0992	14. 45	·01119			
	***	3. 58	·0993	15. 0	·01111			
10. 11	45. 45	4. 5	·0986	15. 31	·01200			
10. 32	42. 35	4. 42	·0997	17. 55	·01516			
10. 58	43. 30	5. 12	·0987	17. 59	·01479			
11. 15	47. 30	5. 30	·0993	22. 45	·01462			
12. 0	44. 35	5. 41	·0990					
	***	5. 52	·0993					
13. 28	45. 30	6. 0	·0984					
13. 37	43. 35	6. 12	·0988					
13. 59	43. 35	6. 18	·1000					
14. 34	51. 30	6. 40	·0987					
15. 26	40. 0	6. 47	·0995					
15. 45	40. 20		***					
16. 14	44. 0	7. 10	·0992					
	***		***					
16. 59	38. 30	8. 10	·1007					
17. 30	43. 0		***					
17. 33	42. 0	8. 45	·1006					
17. 52	43. 30	8. 55	·1011					
18. 5	42. 0	9. 4	·1007					
19. 7	46. 35	9. 24	·1010					
19. 30	45. 0	9. 29	·1007					
	***	10. 27	·1019					
20. 15	45. 0	10. 46	·1013					
20. 32	47. 15		***					
20. 51	47. 0	13. 52	·1005					
21. 30	48. 50	14. 20	·0995					
21. 42	51. 0	14. 47	·1006					
21. 58	50. 15	15. 40	·1012					
22. 7	51. 30	15. 57	·1015					
	***	16. 2	·1019					
22. 45	51. 0	16. 45	·1021					
23. 30	53. 0	16. 58	·1014					
			***					
		17. 53	·1011					
		18. 0	·1005					
		18. 25	·1007					
		18. 31	·1003					
			***					
		20. 0	·1004					
		20. 8	·1004					
		20. 50	·1002					
			***					
		22. 1	·0984					
		22. 10	·0989					
		22. 35	·0988					
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
1. 3	22. 2. 5	0. 0	·0991	0. 0	·01458	9. 20	72 ·5	71 ·0
2. 16	22. 0. 0	1. 25	·0998	2. 9	·01356	21. 40	67 ·0	68 ·1
3. 45	21. 55. 10	1. 35	·0992	3. 29	·01198			
4. 13	55. 25	1. 47	·0997	3. 41	·01139			
5. 29	51. 10	2. 12	·0983	5. 40	·00831			

Göttingen Mean Solar Time.	Western Declination.	Horizontal Force in parts of the whole H. F. as corrected for Temperature.	Vertical Force in parts of the whole V. F. as corrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 5		Aug. 5		Aug. 5		
h m	° ′ ″	h m		h m	°	°
5. 45	21. 52. 1	2. 17	·0976	5. 46	·00871	
6. 1	51. 15	2. 23	·0984	6. 44	·00790	
6. 35	49. 40	2. 30	·0980		·00820	
7. 4	44. 30	3. 14	·0998	9. 47	·00762	
7. 45	48. 0		***	11. 17	·00809	
9. 45	49. 5	4. 0	·0997	13. 44	·01080	
13. 24	49. 0	4. 13	·0987	16. 16	·01481	
14. 0	50. 20	4. 42	·0987		·01452	
15. 15	49. 0	4. 53	·1000	17. 4	·01449	
15. 29	50. 10	5. 3	·0991	20. 15	·01465	
16. 1	49. 30	5. 16	·0987	22. 53	·01452	
16. 21	50. 20	5. 28	·0992	23. 59	·01421	
17. 10	48. 10	6. 10	·0994			
18. 15	44. 50	6. 20	·0984			
20. 30	44. 15		***			
22. 10	46. 5	6. 55	·0984			
23. 59	51. 0	7. 25	·1006			
		7. 30	·1001			
		7. 33	·1004			
		7. 47	·0997			
		10. 0	·1000			
		13. 5	·1006			
		13. 50	·1007			
		14. 35	·1010			
			***			
		16. 38	·1011			
		19. 50	·1010			
		21. 0	·1011			
		22. 25	·0994			
		23. 25	·0994			
		23. 58	·0992			
Aug. 6		Aug. 6		Aug. 6		Aug. 6
0. 0	21. 51. 5		(†)		(†)	1. 40
0. 51	52. 30	4. 10	·1005	3. 57	·01002	3. 40
	(†)	4. 40	·1008	4. 49	·00918	9. 40
4. 15	51. 20		***	6. 33	·00688	21. 40
7. 0	50. 0	5. 25	·1002	6. 43	·00710	
9. 40	50. 0	5. 31	·0997	9. 15	·00745	
10. 14	48. 40	5. 47	·1008	12. 31	·00710	
11. 15	49. 50	5. 55	·1009	15. 0	·00774	
11. 30	49. 10			17. 43	·00940	
12. 25	49. 25	6. 47	·1002	21. 8	·01290	
13. 15	48. 0		***	22. 36	·01281	
16. 30	50. 15	8. 57	·1000	23. 59	·01235	
17. 30	48. 25	9. 50	·1000			
19. 40	48. 0	11. 40	·1000			
21. 14	49. 10	16. 7	·1013			
23. 59	54. 0	16. 30	·1008			
		17. 42	·1012			
		21. 45	·1013			
		23. 0	·1004			
		23. 54	·1002			
Aug. 7		Aug. 7		Aug. 7		Aug. 7
0. 0	21. 54. 10	0. 0	·1002	0. 45	·01176	1. 40
0. 40	54. 5	0. 43	·1006	3. 58	·00971	3. 40
3. 30	50. 35		***		·00820	9. 40

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
h m	° ′ ″	h m		h m		h m	°	°
6. 45	21. 49. 0	1. 30	·1010	8. 15	·00755	21. 40	66 ·0	68 ·0
10. 16	50. 15		***	9. 45:	·00807			
13. 31	50. 20	3. 15	·1004	10. 32	·00862			
14. 1	49. 3		***	12. 4	·01019			
14. 30	50. 25	6. 22	·1002	15. 16	·01516			
14. 50	49. 0	7. 35	·1007		·01470			
15. 33	49. 45		***	19. 28	·01566			
17. 10	49. 0	12. 50	·1011	20. 32	·01488			
17. 50	47. 30	13. 35	·1017	23. 0	·01480			
22. 30	48. 15	14. 12	·1011	23. 40	·01460			
23. 59	49. 35	14. 47	·1017					
		15. 5	·1014					
		19. 15	·1015					
		21. 0	·1014					
		23. 42	·0998					
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
1. 40	21. 50. 28*	0. 0	·0998	0. 0	·01430	1. 40	70 ·0	71 ·5
3. 40	51. 18*		***	2. 17:	·01190	3. 40	70 ·5	72 ·0
9. 40	49. 27*	0. 55	·0998	5. 5:	·00720	9. 40	68 ·0	71 ·0
21. 40	45. 47*	1. 13	·0992	5. 59	·00639	21. 40	63 ·5	65 ·0
			***	6. 1	·00670			
		3. 40	·0997	8. 31:	·00669			
			***	9. 41	·00720			
		4. 33	·1014	13. 28	·01086			
			***	16. 29	·01461			
		5. 42	·1004		·01410			
		7. 13	·1016	20. 25	·01448			
		7. 47	·1013	21. 13	·01410			
		8. 22	·1016	22. 30	·01384			
		14. 0	·1021	23. 59	·01446			
		17. 50	·1017					
		20. 0	·1017					
		22. 30	·1000					
		23. 59	·1004					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
1. 35	21. 56. 0	0. 0	·1004	0. 52	·01420	1. 40	66 ·0	67 ·5
5. 0	49. 40	0. 50	·1005	3. 45	·01406	3. 40	66 ·0	67 ·5
8. 30	49. 10	1. 15	·1005	3. 23:	·01341	9. 40	67 ·0	69 ·0
9. 16	48. 40	1. 30	·1010	6. 28	·01079	21. 40	61 ·0	62 ·5
10. 20	50. 0	2. 50	·1007	9. 30:	·00878			
10. 39	48. 50	3. 30	·1014	11. 45	·00970			
12. 6	49. 15		***	14. 9	·01230			
12. 30	47. 35	6. 15	·1013	15. 14	·01426			
12. 46	49. 10	7. 7	·1020		·01330			
13. 14	48. 35		***	17. 28	·01402			
13. 32	55. 50	8. 45	·1018	17. 44	·01360			
14. 34	46. 35	11. 18	·1023	17. 58	·01400			
15. 31	45. 5	11. 42	·1018	22. 15	·01404			
16. 15	47. 0	12. 29	·1020	22. 58:	·01350			
17. 50	48. 10	12. 37	·1017	23. 56	·01240			
18. 44	46. 30	13. 0	·1015					
	***	14. 13	·1022					
20. 31	46. 35	15. 40	·1021					
23. 55	53. 40	17. 16	·1023					
		18. 15	·1027					
		21. 10	·1015					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 9 h m		h m		h m	°	°
		23. 30	·1006					
		23. 56	·1011					
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
0. 20	21. 52. 30	0. 17	·1008	0. 0	·01212	1. 40	64 ·0	66 ·5
3. 8	53. 0	1. 40	·1007	3. 13	·00541	3. 40	67 ·0	68 ·5
4. 27	51. 35	3. 13	·1019	3. 16	·00576	9. 40	67 ·5	69 ·5
5. 47	49. 0	3. 27	·1016	7. 13:	·00658	21. 40	65 ·0	67 ·0
11. 37	48. 20	3. 48	·1020	10. 21	·00610			
	***	4. 0	·1017	12. 0	·00640			
13. 39	48. 10	4. 29	·1020	14. 56	·00842			
14. 6	49. 5		***	17. 6	·01062			
14. 48	47. 30	5. 17	·1011	20. 15	·01314			
15. 14	48. 15	5. 25	·1013	23. 0:	·01367			
16. 30	48. 15	5. 32	·1010	23. 55	·01304			
	***	6. 10	·1012					
17. 18	44. 40	6. 18	·1008					
	***	6. 25	·1011					
20. 45	45. 0	6. 42	·1014					
22. 7	47. 0	6. 50	·1014					
23. 22	52. 15	6. 56	·1010					
		7. 10	·1012					
		7. 25	·1011					
		7. 42	·1013					
		7 52	·1016					
		8. 25	·1016					
		8. 31	·1018					
		9. 0	·1017					
		13. 22	·1018					
		13. 40	·1016					
		14. 28	·1022					
		14. 55	·1019					
		15. 15	·1022					
		15. 22	·1021					
		16. 32	·1026					
			***					
		18. 45	·1027					
			***					
		19. 42	·1025					
		21. 17	·1027					
		23. 30	·1012					
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 5	21. 56. 15	0. 40	·1010	0. 0	·01300	1. 40	68 ·0	69 ·0
	***	2. 16	·1020	1. 0	·01190	3. 40	71 ·0	72 ·0
2. 50	22. 1. 35	2. 47	·1028	3. 41	·00698	9. 40	72 ·5	73 ·5
	***	3. 5	·1016		·00740	22. 55	68 ·5	69 ·5
4. 25	21. 56. 0	3. 17	·1018	7. 4	·00771			
4. 45	52. 0	3. 28	·1016	10. 29	·00711			
	***	3. 39	·1019	11. 45	·00661			
5. 35	53. 0	4. 5	·1002	14. 45	·00800			
6. 40	51. 0	4. 25	·1012	19. 0	·01130			
9. 0	50. 30	4. 42	·1005	22. 15:	·01218			
	***	5. 0	·1010	23. 30	·01214			
10. 15	44. 40	5. 15	·1002					
	***	5. 44	·1001					
11. 6	49. 30	5. 56	·1007					
12. 5	44. 55	6. 7	·1004					
13. 0	47. 30		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (|) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 11		Aug. 11						
h m	° ′ ″	h m		h m		h m	°	°
13. 52	21. 47. 5	7. 15	·1016					
14. 20	50. 20	7. 18	·1009					
14. 50	47. 30	7. 45	·1018					
15. 1	47. 30	8. 3	·1017					
15. 32	44. 10	8. 13	·1021					
16. 21	44. 30	8. 40	·1013					
16. 46	46. 25	10. 3	·1012					
18. 40	46. 50	10. 20	·1018					
19. 57	48. 30	10 40	·1019					
21. 0	48. 0	10. 52	·1025					
23. 4	51. 50	11. 4	·1036					
23. 59	56. 50	11. 33	·1023					
		11. 48	·1012					
		13. 15	·1017					
		14. 0	·1019					
		14. 37	·1024					
		15. 2	·1022					
		15. 28	·1016					
		16. 4	·1017					
		16. 25	·1013					
		16. 30	·1015					
		18. 48	·1013					
		19. 15	·1007					
		20. 0	·1013					
		21. 15	·1014					
		22. 20	·1006					
		23. 17	·1002					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 0	21. 56. 55		(†)	0. 0	·01198	10. 40	69 ·0	71 ·0
0. 45	58. 0	1. 25	·1000	3. 45	·01109	21. 40	62 ·0	64 ·5
1. 26	56. 30	1. 57	·1007	9. 15	·00859			
7. 45	51. 0	4. 17	·1019	10. 20	·00900			
8. 14	51. 15		***	14. 15	·01488			
9. 30	49. 40	6. 17	·1016	14. 28	·01449			
10. 5	50. 40	7. 13	·1017	17. 42	·01400			
16. 0	50. 10	7. 22	·1013	20. 0	·01370			
18. 25	49. 10	7. 35	·1015	23. 59	·01358			
20. 13	49. 30	8. 26	·1011					
20. 45	48. 0	8. 38	·1017					
22. 13	50. 30	9. 0	·1019					
	(†)	9. 27	·1017					
		10. 32	·1015					
		14. 30	·1022					
		16. 13	·1024					
		16. 45	·1025					
		18. 13	·1026					
		19. 10	·1024					
		22. 18	·1016					
			(†)					
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 55	21. 53. 35	0. 48	·1003	0. 33	·01280	1. 40	66 ·0	68 ·0
3. 35	53. 20		***	1. 17	·01160	3. 40	68 ·5	71 ·0
4. 45	50. 40	4. 15	·0998	3. 16	·00649	9. 40	69 ·0	70 ·0
5. 15	51. 0	5. 5	·1004		·00688	21. 40	64 ·0	66 ·0
5. 55	49. 0	5. 30	·0994	7. 40	·00726			
7. 18	49. 55	7. 11	·1009	9. 55	·00671			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 13		Aug. 13						
h m	° ′ ″	h m		h m		h m	°	°
8. 43	21. 48. 30	7. 35	·1003	11. 0	·00978	1. 40	63 ·0	66 ·0
	***	8. 20	·1002	13. 26	·00902	3. 40	66 ·0	68 ·0
9. 35	48. 40	8. 40	·1007	16. 13	·01462	9. 40	68 ·5	70 ·0
10. 4	45. 5	9. 13	·1002		·01418	21. 40	63 ·0	67 ·5
10. 45	48. 0	9. 54	·1004	20. 33	·01375			
11. 16	48. 30	10. 16	·1010	22. 46	·01370			
13. 25	50. 0	11. 3	·1006					
19. 20	49. 10	14. 45	·1016					
21. 17	46. 40	18. 42	·1023					
21. 40	47. 50	18. 54	·1015					
	(†)	19. 0	·1021					
23. 0	50. 0	22. 4	·1021					
	***							
23. 59	51. 40							
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 0	21. 52. 0	0. 0	·1014	0. 0	·01311	1. 40	63 ·0	66 ·0
	***	0. 57	·1019	1. 16	·01146	3. 40	66 ·0	68 ·0
1. 32	55. 20	1. 23	·1015	3. 48	·00586	9. 40	68 ·5	70 ·0
	***	2. 14	·1013		·00620	21. 40	63 ·0	67 ·5
2. 46	55. 20	2. 47	·1021	8. 21	·00646			
	***	2. 57	·1013	10. 40	·00624			
6. 50	49. 20		***	14. 10	·00631			
	***	4. 0	·1025	17. 14	·00806			
9. 45	49. 15	4. 12	·1019	20. 12	·00996			
	***	4. 48	·1020	22. 35	·01098			
10. 29	47. 50	5. 7	·1027	23. 29	·01059			
11. 10	33. 0		***	23. 59	·01084			
11. 19	32. 15	5. 32	·1024					
	***	5. 42	·1016					
11. 55	37. 15		***					
12. 14	37. 0	5. 55	·1014					
13. 3	43. 35	6. 18	·1026					
14. 15	44. 0	6. 45	·1017					
14. 39	47. 0	7. 18	·1025					
15. 0	45. 25	7. 45	·1020					
15. 22	47. 30	7. 57	·1021					
15. 44	45. 0	8. 24	·1023					
16. 6	46. 35	8. 31	·1021					
16. 30	45. 10	8. 40	·1024					
18. 34	45. 30	8. 45	·1022					
18. 57	43. 0	8. 48	·1020					
	***	9. 15	·1026					
20. 25	42. 30	9. 22	·1034					
20. 43	44. 30	9. 45	·1030					
21. 2	43. 0	10. 0	·1020					
21. 40	47. 35	10. 16	·1025					
	(†)	10. 20	·1019					
		10. 28	·1027					
		10. 54	·1022					
		11. 3	·1028					
		11. 20	·1023					
		11. 45	·1000					
		12. 22	·1016					
		12. 30	·1011					
		14. 16	·1017					
		14. 25	·1012					
		14. 30	·1016					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 14 h m		h m		h m	°	°
		15. 0	·1010 ***					
		18. 10	·1018					
		19. 48	·1013					
		20. 31	·1019					
		21. 0	·1013 ***					
		21. 43	·1002 (†)					
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
0. 30	21. 54. 15	0. 30	·1022	0. 45	·01044 ***	1. 40	67 ·0	69 ·0
1. 0	59. 0	0. 55	·1022			3. 40	68 ·0	70 ·0
1. 30	56. 15	1. 17	·1010	3. 13	·00866	9. 40	70 ·0	73 ·0
1. 36	58. 5 ***	2. 5	·1020	4. 45	·00636	21. 40	65 ·0	67 ·0
		2. 20	·1017		·00720			
3. 27	55. 30	2. 33	·1019	8. 14	·00744			
3. 51	55. 50 ***	2. 52	·1016 ***	10. 15	·00684			
				12. 30	·00701			
5. 30	50. 30	3. 46	·1022	14. 55	·00904			
6. 0	51. 0	4. 2	·1012	15. 30:	·00911			
6. 14	44. 40 ***	4. 31	·1012	16. 50	·01121			
		4. 47	·1019	17. 15	·01159			
7. 45	47. 30	4. 57	·1014	18. 36	·01439			
8. 23	37. 0	5. 7	·1021		·01380			
8. 51	43. 30 ***	5. 17	·1018	20. 20	·01409			
		5. 28	·1024	22. 46	·01441			
9. 15	43. 15	5. 35	·1008					
9. 45	47. 0 ***	6. 1	·1019					
		6. 48	·1012					
12. 14	49. 45	7. 23	·1018 ***					
12. 20	48. 15							
12. 40	52. 55	7. 55	·1012					
13. 0	48. 0	8. 3	·1023					
13. 14	49. 40	8. 15	·1017					
13. 52	47. 50 ***	8. 28	·1029					
		8. 40	·1029					
14. 34	21. 49. 30	9. 10	·1013					
15. 7	22. 0. 55	9. 34	·1019					
15. 47	21. 51. 50	9. 42	·1016					
16. 10	53. 0	10. 52	·1014					
16. 36	50. 50	11. 25	·1021					
17. 1	53. 10	11. 33	·1017					
17. 30	47. 20	11. 42	·1020					
17. 36	47. 5	12. 0	·1019					
18. 5	50. 0	12. 20	·1019					
18. 31	49. 40		(†)					
18. 45	47. 0	13. 44	·1010					
19. 7	47. 5	14. 14	·1012					
19. 20	45. 30	14. 28	·1002					
19. 33	46. 20	14. 31	·1006					
20. 16	43. 0 ***	14. 44	·1004					
		14. 48	·1011					
22. 0	52. 20	15. 10	·1007					
22. 17	51. 20 ***	15. 40	·1010					
		15. 50	·1018					
23. 35	53. 0	16. 2	·1012					
23. 59	53. 30	16. 31	·1012					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 15 h m		h m		h m	°	°
		17. 2	·1027					
		17. 26	·1026					
		17. 35	·1021					
		17. 57	·0995					
		18. 7	·0994					
		18. 46	·1016					
		19. 10	·1019					
		20. 17	·1008					
		20. 31	·1008					
		21. 11	·1004					
		21. 28	·0992					
		21. 56	·0994					
		22. 15	·0990 ***					
		22. 48	·0992 (†)					
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 0	21. 53. 30 ***	0. 0	·0993 ***	0. 0	·01318	1. 40	69 ·0	71 ·0
				1. 30	·00978	3. 40	73 ·0	74 ·0
1. 31	56. 40 ***	1. 41	·1001	2. 39	·00762	9. 40	78 ·0	79 ·0
		1. 46	·0996		·00764	21. 40	66 ·0	68 ·0
1. 55	55. 0	2. 2	·1002	4. 0	·00840			
2. 11	55. 30	2. 37	·1005	4. 4	·00822			
2. 40	58. 35	2. 48	·1013	8. 15	·00824			
3. 1	54. 40	3. 12	·0985	10. 0	·00784			
3. 45	55. 5	3. 30	·0990	11. 0	·00780			
3. 55	53. 0	3. 45	·0988	12. 31:	·00878			
6. 6	49. 40	3. 50	·0997	16. 26	·01508			
6. 34	46. 50	3. 58	·0996	16. 33	·01470			
6. 57	47. 0	4. 7	·1004	22. 0	·01444			
7. 33	37. 35	4. 16	·1002	22. 42	·01492			
7. 57	38. 40	4. 27	·0990					
8. 13	37. 0	5. 15	·1003					
9. 1	45. 0	5. 43	·1000					
10. 14	46. 0 ***	5. 58	·0993					
		6. 15	·1002					
10. 46	42. 30	6. 28	·0995					
11. 4	42. 30	6. 47	·0997					
11. 25	39. 35	7. 3	·1000					
12. 0	47. 40	7. 30	·1001					
12. 20	44. 45	7. 43	·1010					
12. 55	42. 35	7. 53	·1011					
13. 53	45. 10	8. 2	·1004					
14. 30	48. 30	8. 16	·1005					
14. 46	47. 0	8. 45	·0995					
15. 30	48. 0	9. 45	·0997					
15. 44	47. 0	10. 3	·0996					
16. 12	49. 5 ***	10. 14	·1001					
		10. 45	·1001					
17. 40	48. 30 ***	11. 0	·1021					
		11. 11	·1016					
18. 15	46. 0	11. 19	·1015					
19. 15	45. 40 ***	11. 30	·1009					
		11. 41	·1019					
19. 59	46. 0	12. 4	·1008					
20. 16	43. 0	13. 15	·0998					
20. 45	45. 0	14. 44	·1008 ***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 16		Aug. 16						
h m	° ′ ″	h m		h m		h m	°	°
21. 6	21. 44. 35	16. 0	·1009					
	***	16. 15	·1004					
22. 0	48. 30	16. 25	·1007					
	***	16. 35	·1002					
23. 59	58. 40	17. 17	·1008					
		17. 32	·1004					
		17. 47	·1008					
		17. 55	·1004					
		18. 45	·1008					
			***					
		19. 58	·1004					
			(†)					
Aug. 17		Aug. 17		Aug. 17		Aug. 17		
0. 0	21. 38. 45	0. 0	·0992	0. 0	·01404	1. 40	71 ·0	72 ·5
0. 31	55. 25	0. 30	·0996	1. 16:	·01018	3. 40	72 ·0	75· 0
0. 59	57. 35	0. 32	·0992	3. 0	{·00771	9. 40	75 ·0	77 ·0
	***	0. 50	·1000		{·00859	21. 40	67 ·0	68 ·0
2. 1	54. 30	1. 10	·0985	3. 36	{·00869			
	***	1. 24	·0981		{·00900			
3. 2	56. 20	1. 37	·1000	7. 10	·00866			
			***					
3. 31	48. 30			9. 41:	·00780			
3. 52	51. 20	2. 44	·1002	13. 29:	·01094			
4. 6	50. 10	3. 8	·0990	15. 44	·01519			
	***	3. 35	·1010	15. 57	·01502			
5. 9	51. 10	3. 50	·1004	18. 40	·01500			
	***	4. 15	·1002	21. 13	·01486			
6. 45	56. 30	4. 20	·1004	22. 2	·01506			
7. 12	46. 30	4. 46	·0991	23. 31	·01417			
7. 31	42. 30	5. 2	·0990					
7. 55	45. 50	5. 10	·0997					
8. 25	44. 25	5. 15	·0993					
9. 0	44. 50	5. 17	·0997					
9. 20	43. 0	5. 50	·0991					
10. 15	48. 0	5. 57	·0998					
10. 45	46. 35	6. 43	·1001					
11. 5	48. 45	7. 23	·1005					
	***	7. 32	·1013					
12. 14	47. 0	8. 0	·1002					
12. 45	49. 15	8. 22	·1007					
12. 54	48. 0	8. 35	·0997					
13. 10	49. 20	9. 20	·1005					
14. 45	48. 0	9. 44	·1001					
17. 8	50. 10	10. 2	·1004					
17. 47	46. 35	10. 15	·0997					
	***	10. 30	·0996					
18. 45	47. 45	10. 35	·1002					
	***	12. 15	·1009					
19. 36	46. 0	12. 25	·1004					
20. 56	46. 30	12. 55	·1010					
23. 0	52. 10	13. 30	·1007					
23. 59	52. 40	17. 1	·1005					
		17. 41	·1010					
			(†)					
		21. 40	·0995*					
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 0	21. 52. 45	0. 0	·0997	0. 0	·01379	1. 40	70 ·5	73 ·5
1. 50	55. 30	1. 5	·0995	1. 40	·01098	3. 40	73 ·0	76 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temp. Tables.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
h m	° ′ ″	h m		h m		h m	°	°
5. 30	21. 48. 30	1. 30	·0999		{·00786	9. 40	75 ·5	77 ·5
6. 29	48. 20	2. 4	·0993	2. 54	{·00820	23. 10	70 ·0	71 ·0
	***	3. 25	·0991	5. 59:	·00879			
7. 15	43. 0	3. 30	·0994	8. 34:	·00809			
8. 10	46. 0		***	11. 1	·00904			
8. 47	47. 20	6. 0	·0996	14. 31	·01245			
9. 14	46. 30		(†)	17. 39	·01569			
9. 51	48. 0	9. 0	·1003*	17. 46	·01539			
9. 54	47. 30	23. 10	·0993*	19. 30	·01509			
10. 10	48. 10			21. 40	·01538			
12. 20	48. 0			23. 2	·01522			
13. 22	47. 15							
14. 15	44. 25							
14. 30	44. 30							
14. 46	45. 50							
15. 1	46. 0							
15. 36:	49. 30							
16. 32	49. 30							
17. 44	45. 30							
	***							
19. 55	44. 25							
	***							
23. 15	51. 20							
Aug. 19		Aug. 19		Aug. 19		Aug. 19		
11. 5	21. 47. 40*	11. 5	·1020*	0. 0	·01500	11. 5	72 ·0	73 ·0
21. 40	48. 39*	21. 40	·1008*	0. 41	·01470	21. 40	67 ·0	68 ·0
				2. 15	·01322			
				5. 30	{·00810			
					{·00850			
				5. 45	{·00849			
					{·00920			
				6. 44:	·00908			
				8. 20	·00992			
				10. 13	·01145			
				12. 16	·01448			
				12. 55	·01452			
				14. 2	·01506			
				18. 29	·01495			
				23. 15	·01500			
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
0. 30	21. 56. 30	0. 40	·1014	0. 31	·01468	1. 40	68 ·0	70 ·0
1. 15	59. 0		***	1. 29	·01442	3. 40	70 ·0	73 ·0
2. 2	59. 0	3. 0	·1022	3. 15	·01329	9. 40	71 ·0	71 ·5
3. 5	56. 10	4. 0	·1028	5. 15	·01124	21. 40	67 ·0	68 ·5
	***	4. 40	·1020	5. 58	·00980			
4. 18	57. 0	5. 45	·1026	7. 30	·00811			
5. 0	47. 25		***	9. 27	·00742			
5. 30	51. 0	7. 9	·1025	11. 26	·00811			
6. 1	51. 25	7. 30	·1018	14. 53	·01084			
6. 35	50. 0	8. 13	·1034	18. 45	·01310			
6. 45	51. 0	8. 55	·1022	21. 26	{·01468			
7. 37	45. 0	9. 36	·1022		{·01425			
7. 45	46. 0	10. 12	·1023	23. 7:	·01472			
8. 0	44. 10	10. 28	·1039	23. 59	·01450			
8. 28	47. 50		***					
	***	11. 43	·1024					
10. 34	50. 50	12. 0	·1027					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

August 19. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.20		Aug.20						
h m	° ′ ″	h m		h m		h m	°	°
10. 50	21. 49. 15	12. 17	·1022					
11. 25	50. 15	13. 7	·1023					
11. 45	49. 10		(†)					
12. 35	50. 35	15. 45	·1016					
	***	16. 0	·1020					
13. 25	48. 35	16. 40	·0998					
13. 42	49. 30	17. 5	·1026					
13. 59	48. 0		***					
14. 25	48. 30	19. 45	·1020					
15. 0	51. 10	21. 22	·1008					
16. 20	44. 40	21. 42	·1011					
16. 44	45. 0	22. 53	·0988					
17. 14	48. 5	23. 59	·0998					
	***							
18. 46	46. 30							
20. 34	46. 45							
22. 52	53. 0							
23. 59	53. 15							
Aug.21		Aug.21		Aug.21		Aug.21		
0. 0	21. 53. 15	0. 0	·0998	0. 0	·01352	1. 40	68 ·5	71 ·0
1. 0	53. 30	0. 30	·1004	0. 30	·01292	3. 40	70 ·0	74 ·0
1. 19	55. 15		***	1. 28	·01078	9. 40	72 ·0	74 ·0
1. 34	55. 0	5. 10	·1007	2. 30	·00726	21. 40	64 ·0	67 ·0
1. 55	56. 30	5. 30	·1000		·00770			
2. 18	57. 0		***	3. 30	·00761			
2. 30	56. 0	7. 2	·1007	6. 15	·00802			
2. 51	56. 30	7. 20	·1003	9. 45	·00754			
3. 23	54. 30	7. 40	·1005	14. 43	·01102			
6. 35	48. 55	7. 43	·1001	18. 25	·01540			
8. 15	48. 55	7. 47	·1004		·01498			
8. 50	47. 50	7. 54	·1001	20. 46	·01482			
10. 30	48. 35	8. 0	·1007	22. 46	·01546			
10. 54	47. 0	8. 7	1004	23. 31	·01514			
11. 31	48. 30		***					
	***	9. 45	·1009					
12. 51	45. 10	11. 13	·1007					
13. 31	48. 30	11. 17	·1009					
14. 15	48. 0	12. 0	·1008					
14. 35	49. 15	12. 9	·1020					
15. 11	48. 20	13. 0	·1006					
15. 36	49. 20	15. 2	·1011					
16. 22	47. 0	16. 50	·1011					
17. 0	48. 30	17. 3	·1014					
17. 45	44. 45	18. 5	·1011					
18. 23	46. 0	18. 25	·1015					
19. 11	44. 30	21. 5	·1017					
21. 30	46. 15	23. 25	·1000					
23. 55	52. 30	23. 59	·0998					
Aug.22		Aug.22		Aug.22		Aug.22		
0. 0	21. 52. 35	0. 0	·0998	0. 43	·01364	1. 40	67 ·5	71 ·0
2. 0	54. 55	1. 3	·1002	1. 44	·01228	3. 40	72 ·0	74 ·0
3. 51	51. 5	2. 23	·1003	3. 32	·00760	9. 40	74 ·0	75 ·0
4. 15	52. 0	2. 30	·0998	3. 59	·00789	21. 40	69 ·0	69 ·5
	***	3. 32	·0998	7. 6	·00750			
7. 15	48. 30	4. 10	·1006	8. 58;	·00722			
9. 30	48. 35	4. 27	·1006	10. 37	·00826			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.22		Aug.22		Aug.22				
h m	° ′ ″	h m		h m		h m	°	°
10. 16	21. 47. 35	4. 57	·0998	14. 43	·01490			
11. 16	48. 15	5. 25	·0992		·01430			
11. 30	49. 30	5. 45	·0995	19. 14	·01441			
11. 45	47. 10	7. 28	·1010	22. 54;	·01451			
12. 15	46. 30	7. 37	·1008	23. 59	·01374			
12. 45	49. 0	8. 25	·1004					
14. 4	47. 0	9. 11	·1008					
15. 0	46. 40	11. 17	·1008					
16. 16	49. 30	11. 27	·1015					
19. 0	48. 30	11. 35	·1016					
21. 14	51. 30	11. 45	·1022					
	***	12. 15	·1012					
23. 35	53. 0	12. 58	·1020					
		13. 28	·1017					
		15. 1	·1014					
		17. 45	·1028					
		18. 25	·1025					
		20. 1	·1018					
		20. 25	·1023					
		23. 11	·1014					
		23. 25	·1016					
Aug.23		Aug.23		Aug.23		Aug.23		
0. 0	21. 53. 0	0. 0	·0997	0. 15	·01496	1. 40	71 ·0	73 ·5
1. 7	54. 20	2. 45	·1009	2. 14;	·01310	3. 40	74 ·0	75 ·0
5. 30	46. 20	3. 20	·1007	4. 20	·00806	9. 40	72 ·5	76 ·0
7. 0	47. 30	4. 50	·1010		·00860	21. 40	68 ·5	72 ·0
9. 55	49. 0	5. 25	·1009	7. 14	·00829			
13. 20	47. 30	6. 11	·1012	8. 54	·00789			
	***	7. 2	·1019	10. 13	·00866			
14. 46	47. 0	7. 15	·1017	13. 58	·01246			
15. 8	45. 0	7. 27	·1023	16. 31	·01580			
15. 28	46. 0	7. 45	·1020		·01526			
15. 45	21. 45. 0		***	17. 6	·01453			
16. 35	22. 0. 30	10. 25	·1025	19. 45	·01501			
17. 13	21. 39. 0	10. 30	·1020	22. 29	·01532			
	***	11. 5	·1020	23. 59	·01488			
18. 0	38. 0	11. 22	·1021					
19. 3	43. 0	12. 12	·1026					
19. 47	43. 0	12. 28	·1020					
	***		***					
21. 32	44. 0	14. 10	·1023					
23. 8	54. 30	14. 15	·1030					
23. 59	55. 30	14. 43	·1024					
		14. 47	·1026					
		15. 17	·1020					
		15. 31	·1023					
		15. 47	·1018					
		15. 58	·1019					
		16. 15	·1007					
		16. 42	·1044					
		17. 17	·1030					
		17. 45	·1023					
		17. 58	·1027					
		18. 40	·1016					
		19. 7	·1019					
		20. 57	·1011					
		21. 13	·1012					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug.23 h m		h m		h m	°	°
		23. 0	·1000					
		23. 45	·0997					
Aug.24		Aug.24		Aug.24		Aug.24		
1. 40	21. 54. 54*	1. 40	·0995*	0. 31	·01400	1. 40	73 ·0	75 ·0
3. 40	54. 54*	3. 40	·1004	1. 43	·01328	3. 40	74 ·0	76 ·0
9. 40	46. 58*	9. 40	·1006*		(†)	9. 40	75 ·5	77 ·0
21. 40	46. 43*	21. 40	·0995*	3. 40	·01052*	21. 40	64 ·5	67 ·0
				5. 29	·00838			
				8. 43	·00780			
				10. 15	·00881			
					(†)			
				12. 18	·01179			
				14. 35	·01536			
					(†)			
				21. 40	·01476*			
Aug.25		Aug.25		Aug.25		Aug.25		
0. 0	21. 54. 15	0. 0	·1004	0. 20	·01448	1. 40	68 ·0	70 ·0
	***	0. 5	·1010	1. 10	·01366	3. 40	71 ·0	73 ·0
1. 0	58. 30	0. 15	·1008	2. 46	·01124	9. 40	71 ·0	73 ·0
	***	0. 20	·1013	4. 32	·00666	23. 0	62 ·5	63 ·0
2. 47	56. 0	0. 45	·1013		·00700			
5. 15	50. 0	1. 13	·1010	6. 47	·00674			
7. 30	47. 20		***	8. 43	·00639			
11. 20	47. 30	3. 44	·1015	9. 30:	·00661			
14. 25	48. 40	3. 59	·1011	13. 33	·01342			
16. 15	48. 20	4. 13	·1013	14. 19	·01446			
	(†)	4. 23	·1011		·01370			
23. 0	52. 30	4. 35	·1013	16. 30	·01381			
23. 59	53. 40	4. 52	·1012	18. 14	·01360			
		5. 2	·1010		(†)			
		5. 37	·1013	23. 0	·01286*			
		5. 54	·1010					
		8. 15	·1020					
		10. 45	·1023					
		13. 50	·1022					
		16. 55	·1028					
			(†)					
		23. 0	·1011*					
Aug.26		Aug.26		Aug.26		Aug.26		
0. 0	21. 53. 40	0. 12	·1010	0. 0	·01158	9. 40	69 ·5	71 ·0
1. 0	56. 30	1. 5	·1008	0. 37	·01138	21. 40	63 ·0	65 ·5
1. 15	55. 40	1. 20	·1004	1. 40	·00962			
1. 41	55. 50	2. 13	·1010	2. 49	·00628			
5. 0	48. 30	2. 20	·1014	4. 29	·00708			
8. 45	46. 30	3. 5	·1018	6. 45	·00709			
9. 43	44. 0	3. 15	·1016	9. 41	·00662			
10. 25	46. 15	4. 15	·1014	11. 30	·00852			
12. 40	46. 20	4. 50	·1010	14. 28	·01448			
13. 14	47. 35	5. 40	·1013		·01390			
13. 31:	49. 25	5. 46	·1011	21. 5	·01420			
14. 8	46. 40	6. 18	·1010	23. 34	·01340			
18. 8	46. 0	6. 26	·1014					
19. 21	45. 5		***					
20. 45	46. 0	7. 31	·1013					
23. 22	54. 10	7. 40	·1017					
23. 59	55. 30		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug.26 h m		h m		h m	°	°
		8. 10	·1012					
		8. 16	·1014					
		8. 47	·1013					
		9. 10	·1030					
		9. 57	·1014					
		10. 15	·1013					
		10. 20	·1016					
		11. 13	·1016					
		11. 25	·1020					
		13. 0	·1017					
		13. 45	·1025					
		14. 40	·1022					
		17. 20	·1035					
		18. 45	·1034					
		19. 10	·1029					
		20. 0	·1029					
			***					
		22. 0	·1022					
		23. 20	·1021					
		23. 59	·1019					
Aug.27		Aug.27		Aug.27		Aug.27		
0. 0	21. 55. 30	0. 0	·1020	0. 0	·01295	1. 40	67 ·0	68 ·5
1. 0	56. 10	0. 52	·1028	1. 9	·01186	3. 40	68 ·0	70 ·0
1. 49	55. 55	1. 3	·1025	2. 13	·01040	9. 40	71 ·0	72 ·0
5. 0	48. 40	1. 16	·1029	4. 15	·00632	21. 40	67 ·5	69 ·0
	***		***		·00680			
7. 0	49. 0	4. 20	·1019	7. 0	·00706			
7. 29	50. 0	4. 45	·1026	10. 17:	·00628			
8. 22	41. 10	4. 55	·1016	15. 43	·00984			
9. 0	46. 55	5. 11	·1016	18. 45	·01260			
9. 15	46. 0	5. 25	·1020	21. 25:	·01380			
9. 29	47. 0	5. 37	·1016	23. 14	·01220			
	***	5. 43	·1019					
12. 0	46. 30	5. 46	·1016					
12. 14	47. 30	5. 55	·1022					
12. 48	44. 0	6. 20	·1015					
	***		***					
15. 20	45. 30	7. 7	·1018					
15. 47	44. 25	7. 18	·1012					
17. 0	44. 0	7. 55	·1034					
17. 45	42. 35	8. 7	·1027					
20. 5	43. 35	8. 32	·1031					
22. 27	51. 15	9. 13	·1012					
23. 9	52. 15	9. 43	·1020					
		11. 30	·1021					
		12. 0	·1024					
		14. 2	·1018					
			***					
		17. 30	·1022					
			***					
		19. 47	·1018					
		22. 22	·1002					
		23. 10	·1005					
Aug.28		Aug.28		Aug.28		Aug.28		
1. 40	21. 56. 10*	0. 0	·0998	0. 0	·01062	1. 40	71 ·0	73 ·0
3. 40	54. 17*	0. 47	·1004	0. 54	·00900	3. 40	73 ·5	76 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.28		Aug.28		Aug.28		Aug.28		
h m s	° ′ ″	h m		h m		h m	°	°
9. 40	21. 46. 49*	1. 7	·1031	1. 44	[illegible]	9. 40	76 ·5	78 ·0
21. 40	45. 56	1. 55	·1000		[illegible]	21. 40	66 ·0	68 ·0
		2. 13	·0998	3. 40	[illegible]			
		2. 20	·1002		·00850			
		2. 34	·0999	4. 32	·00840			
			***		·00820			
		4. 17	·1005	5. 55	·00827			
		4. 30	·1002	7. 0	·00805			
		5. 15	·1005	8. 10:	·00780			
		5. 45	·0998	9. 12	·00820			
		6. 22	·0998	12. 46	·01479			
		6. 30	·0991	12. 50	·01462			
		6. 45	·1006	17. 28	·01442			
		6. 59	·0994	23. 10	·01442			
		7. 5	·0995					
		7. 16	·0989					
		7. 45	·0997					
		8. 5	·0995					
		8. 45	·1001					
		11. 30	·1001					
		13. 57	·1014					
		15. 35	·1017					
		15. 44	·1021					
		15. 47	·1018					
		16. 0	·1019					
		18. 7	·1020					
		18. 15	·1018					
		20. 1	·1014					
		20. 15	·1015					
		22. 8	·1002					
		22. 45	·1002					
			(†)					
Aug.29		Aug.29		Aug.29		Aug.29		
0. 0	21. 55. 35	0. 0	·1005	0. 0	·01428	1. [illegible]	[illegible]	·71 ·0
1. 10	56. 40	0. 5	·1007	1. 28:	[illegible]	3. 40	70 ·5	73 ·0
2. 25	55. 5	0. 13	·1002	4. 13	[illegible]	9. 40	71 ·0	73 ·5
2. 52	55. 25	1. 48	·1002		[illegible]	22. 40	61 ·5	64 ·0
5. 7	48. 55	1. 50	·1000	7. 43	·00680			
9. 14	48. 0	2. 24	·1000	9. 33:	·00658			
11. 8	47. 30	2. 47	·1007	12. 39	·00978			
12. 29	45. 20	3. 1	·1004		(†)			
	(†)	3. 13	·1006	21. 52	·01221			
22. 0	49. 10		***	22. 20	·01249			
23. 50	53. 35	3. 46	·0996	23. 32	·01330			
			***					
		4. 40	·0997					
		5. 0	·0993					
		5. 30	·1000					
		5. 43	·0997					
		6. 0	·1003					
		6. 24	·0997					
		6. 44	·1003					
		9. 5	·1005					
		9. 43	·1001					
		11. 1	·1004					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Aug.2						
		21. 55	·1012					
		[illegible]	·1002					
Aug.30		Aug.3		Aug.3		Aug.30		
h m s	° ′ ″	h m		h m		h m	°	°
[illegible]	21. 54. 0	0. 0	·1000	0. 0	·01380	1. 40	65 ·0	67 ·0
1. 15	54. 50	3. 15	·1010	0. 38	·01226	3. 40	70 ·0	73 ·0
3. 30	52. 0	3. 47	·1007	2. 25	[illegible]	9. 40	72 ·0	75 ·0
5. 29	48. 30	5. 0	·0999		·00680	21. 40	66 ·0	67 ·5
7. 12	48. 20	5. 53	·0997	5. 10:	·00766			
8. 30	47. 0	6. 10	·0990	7. 40	·00708			
11. 31	47. 0	7. 11	·1003	8. 24	·00658			
12. 1	42. 20	9. 0	·1010	9. 59	·00640			
12. 34	40. 0	9. 17	·1005	12. 28	·00794			
13. 12	45. 30	11. 30	·1012	13. 20	·00939			
13. 45	59. 30	12. 0	·1026	16. 10	·01468			
	***	12. 32	·1010		·01400			
15. 47	45. 20	12. 45	·1010	19. 47	·01428			
16. 2	44. 0	13. 20	·1026	22. 0	·01404			
	***	14. 2	·1011	22. 54	·01450			
16. 38	44. 0	14. 20	·1010	23. 12	·01400			
17. 3	48. 0	14. 40	·1016					
17. 16	48. 0	15. 15	·1013					
	***	15. 43	·1019					
18. 25	44. 30	16. 28	·1020					
19. 32	52. 35	16. 32	·1016					
20. 0	50. 10		***					
20. 34	49. 50	18. 15	·1026					
21. 21	52. 55	19. 10	·1012					
21. 52	52. 50	19. 54	·1024					
22. 46	57. 50	20. 20	·1013					
23. 10	57. 0	21. 16	·1013					
		22. 13	·0994					
		22. 28	·0994					
		23. 5	·1006					
Aug.31		Aug.31		Aug.31		Aug.31		
0. 45	21. 59. 0	0. 0	·1008	0. 0	·01380	1. 40	68 ·5	70 ·0
1. 30	22. 1. 30	0. 30	·1000	2. 0	·01051	3. 40	72 ·5	74 ·0
3. 46	21. 57. 25	0. 48	·1000	2. 57	·00780	9. 40	73 ·5	74 ·5
4. 8	57. 50	1. 0	·1005		·00842	21. 40	64 ·0	66 ·0
4. 46	45. 10	1. 23	·1002	4. 15	·00840			
5. 2	53. 0	1. 30	·0992	4. 39	·00899			
5. 15	53. 50	1. 42	·1007	5. 1	·00900			
	***	1. 45	·0997	5. 44	·00842			
6. 8	51. 0		***	8. 10:	·00766			
6. 30	48. 20	2. 46	·0990	9. 14	·00819			
6. 48	50. 0	3. 0	·1000	9. 29	·00720			
8. 0	48. 30	3. 13	·0997	13. 31	·01481			
8. 29	49. 30	3. 20	·0998		·01430			
10. 27	44. 35	3. 38	·0995	17. 59	·01426			
12. 15	47. 30	3. 50	·0993	21. 14	·01416			
12. 45	46. 0	4. 17	·0984	22. 47	·01448			
13. 0	47. 20	4. 32	·0994	23. 59	·01311			
13. 30	46. 30	4. 46	·0990					
14. 48	47. 0	5. 0	·1003					
15. 25	48. 20	5. 30	·0964					
17. 15	48. 35	5. 45	·0984					
	***	6. 10	·0988					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 31		Aug. 31						
h m	° ′ ″	h m		h m		h m	°	°
20. 20	21. 46. 10	6. 17	·0976					
21. 25	48. 10	6. 32	·0984					
21. 52	52. 0	6. 53	·0984					
22. 30	53. 30	7. 27	·0992					
		7. 50	·0994					
		8. 13	·1008					
		8. 43	·1002					
		9. 0	·1008					
		11. 0	·1002					
		13. 45	·1007					
		17. 35	·1015					
			***					
		19. 10	·1018					
		20. 12	·1010					
		21. 0	·1010					
		23. 11	·1003					
		23. 59	·0994					
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
1. 40	21. 55. 20*	1. 40	·1006*	0. 30	·01238	1. 40	66 ·5	68 ·5
3. 40	51. 32*	3. 40	·1008*	2. 28	·00940	3. 40	69 ·0	71 ·0
9. 40	47. 23*	9. 40	·1012*	3. 31	·00616 ·00640	9. 40	66 ·0	69 ·0
				7. 55	·00566			
				9. 17	·00648			
				12. 17	·01061			
				13. 55	·01386			
				14. 5	·01316			
				16. 24	·01372			
				22. 0	·01362			
				23. 30	·01380			
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 0	21. 54. 10	0. 10	·0997*	0. 0	·01380	0. 10	62 ·0	63 ·5
0. 45	55. 40	9. 55	·1033*	2. 17	·01159	9. 55	64 ·5	65 ·5
1. 45	55. 35	21. 40	·1014*	4. 44	·00780	21. 40	60 ·0	62 ·0
3. 15	52. 0			6. 28:	·00568			
6. 17	48. 10			7. 43	·00480 ·00520			
8. 54	48. 0							
9. 59	44. 0			9. 34:	·00486			
11. 6	46. 5			12. 40	·00662			
11. 32	48. 35			16. 13	·01039			
12. 7	48. 20			18. 31	·01342			
12. 50	45. 35			18. 41	·01310			
14. 5	47. 10			21. 40:	·01362			
14. 30	47. 0			23. 17	·01298			
14. 59	49. 35							
15. 52	46. 30							
16. 20	49. 10							
	***							
18. 9	45. 0							
18. 55	46. 15							
	***							
20. 30	45. 10							
21. 0	47. 30							
22. 22	49. 30							
23. 59	54. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 3		Sept. 3		Sept. 3		Sept. 3		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 54. 10	2. 30	·1013	0. 0	·01256	1. 40	64 ·0	66 ·0
2. [illegible]	56. 0	2. 35	·1012	1. 26	·01102	3. 40	65 ·5	67 ·0
2. 40	53. 40	2. 50	·1015		·00526	9. 40	67 ·0	69 ·0
4. 15	52. 50	3. 20	·1015	4. 17	·00566	21. 40	64 ·0	66 ·0
5. 10	49. 30	3. 36	·1012	6. 40	·00598			
8. 0	47. 0	4. 13	·1012	10. 55	·00516			
8. 28	50. 0	4. 17	·1016	13. 27	·00689			
8. 45	44. 0		***	16. 27	·00972			
9. 14	46. 30	4. 40	·1010	21. 25:	·01340			
9. 30	45. 50	5. 0	·1012	23. 30	·01272			
9. 53	48. 0	5. 8	·1008					
13. 30	48. 40	5. 20	·1014					
14. 5	47. 30		***					
18. 17	46. 10	5. 55	·1010					
19. 45	45. 15		***					
21. 10	46. 45	6. 28	·1018					
21. 52	48. 50	6. 47	·1014					
23. 15:	54. 25	7. 40	·1022					
23. 30	53. 30	8. 0	·1017					
23. 59	54. 50	8. 12	·1017					
		8. 20	·1013					
		8. 33	·1027					
		8. 52	·1019					
			***					
		10. 15	·1018					
			***					
		13. 15	·1024					
		15. 7	·1026					
		19. 0	·1026					
		23. 30	·1006					
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
0. 0	21. 54. 55		(†)	0. 0	·01249	1. 40	66 ·5	69 ·5
1. 0	55. 40	3. 0	·1011	0. 46:	·01145	3. 40	68 ·0	71 ·0
3. 0	52. 0		***	2. 45	·00622	9. 40	70 ·0	71 ·0
5. 0	48. 0	4. 46	·1003	3. 36	·00639 ·00710	21. 40	63 ·0	66 ·0
7. 30	49. 20	5. 57	·1007					
8. 52	47. 30	6. 4	·1008	7. 35	·00638			
9. 59	48. 30	7. 55	·1009	9. 25	·00615			
10. 37	46. 55	9. 20	·1010	11. 15	·00669			
10. 50	43. 0	11. 32	·1023	14. 35	·01028			
11. 14	47. 10	12. 10	·1012	17. 47	·01459 ·01390			
11. 30	45. 50	14. 0	·1020					
12. 32	48. 20		***	20. 16	·01378			
17. 0	47. 25	18. 45	·1019	23. 14	·01358			
19. 59	46. 0	18. 50	·1023					
20. 9	44. 50	19. 0	·1019					
23. 59	53. 0	21. 15	·1007					
		23. 15	·1008					
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
0. 0	21. 53. 10	0. 0	·1012	0. 0	·01369	1. 40	64 ·5	67 ·0
1. 15	55. 30	1. 5	·1018	1. 40	·01365	3. 40	70 ·0	71 ·5
2. 0	55. 10	1. 15	·1016	3. 24:	·01279	9. 40	67 ·5	68 ·0
4. 30	48. 25	3. 5	·1014	7. 0:	·00956	21. 40	55 ·0	56 ·5
6. 14	48. 5	4. 0	·1017	8. 30:	·00982			
8. 14	47. 5		***	11. 14	·01238			
11. 8	48. 30	4. 45	·1011		(†)			
	(†)							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 5		Sept. 5		Sept. 5				
h m	° ′ ″	h m		h m		h m	°	°
21. 40	21. 49. 30	5. 0	·1010	21. 45	·01151			
23. 30	53. 25	5. 40	·1012	22. 43	·01267			
		6. 0	·1008	23. 40	·01246			
		6. 55	·1016					
			***					
		8. 28	·1014					
		11. 46	·1029					
			(†)					
		21. 55	·1026					
		23. 52	·1028					
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
0. 0	21. 53. 30	0. 0	·1032	0. 0	·01226	1. 40	59 ·0	61 ·0
1. 32	55. 0	1. 15	·1037	1. 13:	·01064	3. 40	63 ·5	66 ·0
4. 12	50. 0	1. 30	·1035	3. 3	·00645	9. 40	65 ·0	65 ·0
7. 0	48. 0	2. 30	·1035	3. 35:	·00706	21. 40	59 ·0	62 ·0
8. 8	48. 50		***	5. 54	·00726			
8. 31	46. 30	4. 25	·1023	7. 10	·00680			
8. 51	47. 30		***	8. 45	·00662			
9. 5	45. 50	6. 10	·1023	10. 8	·00605			
10. 0	47. 55	8. 58	·1020	11. 45	·00638			
10. 45	47. 10	9. 15	·1025	13. 24	·00665			
12. 34	48. 30	9. 30	·1022	15. 55	·00881			
14. 15	48. 10	10. 45	·1024	20. 43	·01428			
14. 46	46. 30	11. 12	·1022	21. 54	·01500			
18. 25	45. 35	11. 50	·1023		·01326			
19. 45:	44. 40	13. 30	·1029	23. 13	·01330			
21. 0	48. 15	13. 45	·1027					
23. 59	55. 0	14. 5	·1030					
		14. 20	·1028					
		14. 40	·1031					
		17. 18	·1027					
		19. 20	·1027					
		19. 50	·1020					
		22. 57	·1021					
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
0. 0	21. 55. 0		(†)	0. 0	·01321	1. 40	63 ·0	66 ·0
0. 32	56. 0	1. 0	·1022	1. 0	·01228	3. 40	67 ·5	69 ·5
	***		***	2. 45	·00789	9. 40	67 ·0	67 ·5
2. 30	54. 25	2. 30	·1023	3. 15	·00819	21. 40	58 ·5	60 ·0
4. 3	50. 15	2. 40	·1016	5. 0	·00790			
4. 50	47. 0		***		***			
	***	3. 50	·1018	5. 54	·00764			
6. 20	48. 20		***	8. 0	·00710			
	(†)	4. 50	·0998	9. 12	·00700			
9. 40	44. 56"	5. 3	·1002	10. 13:	·00742			
21. 40	49. 4"	5. 15	·1010	11. 15	·00830			
		5. 22	·0996	13. 39	·01246			
		5. 26	·1008	15. 15	·01541			
		5. 28	·1002	15. 25	·01482			
		5. 45	·1014	18. 27	·01464			
		6. 20	·1012	21. 7:	·01384			
			(†)	22. 0	·01368			
		9. 40	·1015"	23. 13	·01421			
		21. 40	·1004'					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
h m	° ′ ″	h m		h m		h m	°	°
0. 25	21. 59. 0	0. 15	·1013	0. 18	·01381	1. 40	61 ·0	63 ·0
0. 48	22. 0. 40	0. 40	·1023	2. 0	·01206	3. 40	67 ·0	69 ·0
1. 22	21. 59. 0	1. 25	·1018	3. 30	·00725	9. 40	68 ·0	70 ·0
2. 1	58. 0	1. 37	·1010		·00790	23. 0	60 ·0	61 ·0
3. 0	53. 0	2. 5	·1014		***			
	***		***	4. 64	·00839			
4. 40	53. 0	2. 50	·1012	5. 57	·00808			
5. 40	47. 0	3. 0	·1008	7. 28	·00739			
	***	3. 40	·1018	9. 0:	·00721			
7. 25	47. 30	3. 57	·1010	10. 14	·00826			
7. 55	46. 35	4. 0	·1012	12. 15	·01163			
8. 30	39. 0	4. 19	·1004	13. 59	·01506			
10. 15	47. 5	4. 30	·0996		·01450			
11. 47	49. 10	4. 45	·1003	16. 52	·01448			
12. 30	47. 25	5. 0	·0996	21. 0	·01426			
16. 29	47. 40		***	21. 45	·01380			
17. 0	48. 30	6. 15	·0978	22. 47	·01439			
20. 13	46. 0	6. 45	·0986	23. 46	·01391			
23. 22	55. 40	7. 0	·0985					
23. 59	55. 40	7. 30	·0988					
			***					
		8. 18	·0984					
		8. 36	·0990					
		9. 0	·0986					
		9. 30	·0998					
		10. 15	·0992					
		12. 0	·0998					
		12. 30	·0990					
		17. 30	·1008					
		22. 0	·1000					
		22. 55	·1004					
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	21. 55. 30	0. 0	·1003	0. 0	·01379	10. 25	65 ·8	66 ·0
1. 10	55. 50	1. 25	·1016	2. 45:	·01188	21. 40	59 ·0	61 ·0
	***	1. 35	·1012	4. 10	·00920			
2. 20	52. 30	1. 56	·1015	5. 29	·00601			
4. 39	46. 30		***		·00650			
5. 29	46. 30	2. 19	·1008	10. 24	·00584			
7. 6	48. 30		***	14. 10	·00938			
9. 15	47. 40	4. 35	·1006	17. 15	·01458			
9. 32	44. 30	4. 55	·1003		·01350			
10. 14	48. 30	5. 15	·1006	18. 43	·01400			
10. 36	46. 0		***	22. 54	·01385			
11. 30	48. 15	5. 41	·1004	23. 27	·01340			
15. 10	48. 25	6. 6	·1007					
16. 7	47. 35		***					
16. 58	48. 0	7. 50	·1008					
19. 25	45. 10	9. 20	·1004					
20. 30	45. 30	9. 37	·1010					
22. 15	53. 30	9. 55	·1007					
		10. 25	·1006					
		10. 46	·1014					
		12. 0	·1007					
		13. 30	·1010					
		18. 0	·1016					
		21. 0	·1000					
		23. 35	·1004					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
h m:	° ′ ″	Sept.10 h m		Sept.10 h m		Sept.10 h m	°	°
		0. 0	·1005	0. 0	·01238	1. 40	63·0	65·0
			***	1. 39:	·01059	3. 40	66·0	68·0
		2. 15	·1016	3. 43	·00562	9. 40	66·0	67·0
		3. 15	·1013		·00608	21. 40	59·0	60·5
		4. 40	·1016	4. 45	·00587			
		5. 0	·1008		(†)			
		5. 45	·1028	9. 57	·00604			
		5. 50	·1030	11. 14	·00780			
		6. 0	·1019	12. 40	·00859			
		6. 5	·1031	13. 30	·00900			
		6. 13	·1018	17. 18	·01426			
		6. 15	·1024		·01342			
		6. 50	·1022		***			
		6. 56	·1028	18. 5	·01345			
		7. 0	·1022	19. 15	·01380			
		7. 8	·1031	21. 36	·01336			
		7. 15	·1026	22. 34	·01365			
			***	23. 16	·01336			
		10. 45	·1015					
		11. 15	·1022					
		11. 58	·1014					
			***					
		12. 50	·1020					
		13. 10	·1026					
		13. 45	·1013					
		13. 56	·1012					
		14. 26	·1008					
		14. 52	·0997					
		15. 20	·1013					
		16. 25	·1014					
			(†)					
		22. 30	·1004					
		22. 40	·1010					
		22. 56	·1003					
		23. 2	·1014					
		23. 15	·0995					
		23. 35	·1000					
		23. 59	·0998					
Sept.11		Sept.11		Sept.11		Sept.11		
2. 30	21. 55. 50	0. 35	·1002	1. 1	·00970	1. 40	65·2	67·0
3. 0	51. 30	0. 47	·1014	2. 31	·00645	3. 40	68·0	70·0
3. 7	53. 0	1. 40	·1011	3. 46	·00721	9. 40	70·0	71·5
3. 30:	51. 10	2. 0	·0990	4. 4	·00771	21. 40	64·0	65·5
4. 1	53. 45	2. 31	·0979		***			
4. 24	51. 30	2. 45	·0990	5. 46	·00801			
4. 43	54. 0	3. 45	·1000		***			
	***	4. 10	·1010	6. 18	·00758			
5. 29	46. 10	4. 15	·1004	6. 46	·00781			
5. 34	47. 30	4. 19	·1006	8. 14	·00724			
5. 47	38. 30	4. 28	·0996	8. 56	·00726			
5. 50	42. 30	4. 37	·1002	9. 6	·00700			
6. 0	39. 30	4. 58	·0986	9. 55	·00658			
6. 14	43. 40	5. 15	·0999	10. 54	·00680			
6. 30	32. 25	5. 25	·0992	12. 40	·00780			
6. 39	29. 45	5. 31	·1004	14. 58	·01042			
7. 1	40. 0	5. 40	·0996	17. 0	·01460			
7. 15	40. 20	5. 51	·1005		·01400			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Sept.11 h m	° ′ ″	Sept.11 h m		Sept.11 h m		Sept.11 h m	°	°
7. 30	21. 44. 30	6. 0	·0997	22. 35	·01426			
	***	6. 9	·1004	23. 24	·01452			
8. 30	43. 40	6. 22	·0978	23. 59	·01452			
8. 46	39. 0	6. 36	·1021					
9. 14	45. 0	6. 44	·1020					
9. 25	43. 55	7. 12	·0986					
9. 58	47. 40	7. 25	·0999					
10. 15	40. 30	7. 50	·0998					
10. 36	45. 0	8. 15	·0996					
10. 49	45. 30	8. 35	·0984					
11. 1	42. 30	8. 52	·1020					
	***	9. 3	·1004					
11. 50	46. 0	9. 12	·1004					
12. 28	50. 55	9. 15	·0997					
13. 8	45. 5	9. 31	·0996					
13. 44	44. 50	9. 57	·1010					
		10. 6	·1003					
14. 45	50. 55	10. 25	·1018					
15. 20	46. 30	10. 35	·1008					
15. 38	46. 0	10. 46	·1010					
15. 58	42. 30	11. 5	·1001					
16. 21	45. 0	11. 15	·0994					
	***	12. 0	·1000					
17. 0	44. 25	12. 25	·1016					
17. 8	46. 0	12. 40	·1016					
	***	13. 3	·0998					
17. 30	44. 0	14. 8	·0994					
	***	14. 28	·1000					
18. 8	46. 0	15. 0	·0996					
18. 30	44. 30	15. 46	·1001					
	***	16. 10	·0995					
21. 0	42. 35	17. 5	·1002					
21. 51	47. 10	17. 51	·0992					
23. 59	54. 30	18. 25	·1003					
		22. 30	·0996					
		22. 42	·0997					
		23. 59	·0996					
Sept.12		Sept.12		Sept.12		Sept.12		
0. 0	21. 54. 30	0. 15	·0998	0. 16	·01450	1. 40	64·2	66·0
1. 30	55. 50	1. 18	·1004	2. 25	·01245	3. 40	69·0	71·0
	***	2. 37	·0998	4. 0	·00739	9. 40	69·0	70·0
3. 52	48. 40	3. 17	·0999		·00804	21. 40	63·0	64·5
	***	3. 29	·0988	6. 28	·00790			
5. 15	39. 40		***	8. 43	·00704			
5. 45	38. 35	3. 52	·1002	10. 0	·00710			
6. 45	45. 30	4. 5	·0990	11. 15	·00810			
	***	4. 30	·0990	11. 40	·00841			
8. 30	45. 5	4. 45	·0980	14. 47	·01494			
9. 30	43. 10	5. 10	·0974		·01440			
10. 28	45. 55	5. 30	·0984	18. 45	·01442			
10. 39	43. 30	5. 45	·0984	22. 30	·01459			
11. 16	52. 0	5. 50	·0989	23. 29	·01432			
	***	6. 30	·0986					
12. 30	47. 20		***					
	***	7. 47	·0996					
14. 50	46. 0	8. 26	·0999					
	***	8. 36	·0992					
16. 45	48. 20		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

September 10. No observations of the Declination Magnet were taken, in consequence of the giving way of the pulley to which the suspension thread is attached.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 12		Sept. 12						
h m	° ′ ″	h m		h m		h m	°	°
17. 10	21. 50. 10	9. 0	·1004					
18. 49	44. 0							
20. 25	44. 15	10. 30	·0994					
23. 15	53. 0	11. 14	·1024					
23. 59	54. 20	11. 49	·1007					
		12. 17	·1006					
		12. 45	·1000					
		13. 18	·1006					
		16. 41	·1010					
		17. 15	·1000					
		18. 14	·1020					
		19. 22	·1008					
		18. 39	·1012					
		23. 20	·1007					
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 0	21. 54. 20	0. 0	·1007	0. 0	·01416	1. 40	65 ·2	67 ·2
1. 40	54. 5	0. 40	·1016	2. 0	·01224	3. 40	69 ·0	70 ·0
2. 12	53. 0	1. 19	·1018	4. 10	·00708	9. 40	69 ·5	70 ·5
2. 30	53. 10	2. 0	·1020		·00754	21. 40	64 ·0	66 ·0
3. 45	48. 50	2. 32	·1018	11. 20	·00677			
5. 15	47. 0	3. 10	·1018	13. 56	·00836			
7. 39	48. 0	3. 55	·1012	18. 25	·01218			
8. 29	46. 15			20. 13	·01355			
8. 46	47. 30	4. 35	·1012	21. 26	·01511			
9. 12	44. 25	6. 10	·1010		·01430			
9. 33	46. 35	7. 10	·1010	23. 31	·01439			
9. 45	44. 35	7. 29	·1016	23. 59	·01442			
		7. 47	·1010					
11. 0	45. 30	8. 18	·1012					
11. 16	45. 0	8. 30	·1008					
		8. 45	·1008					
12. 20	48. 10	9. 0	·1001					
12. 4	51. 20	9. 37	·1006					
12. 59	49. 10	10. 0	·1024					
13. 4	50. 0	10. 31	·1009					
13. 49	44. 0	11. 28	·1010					
		14. 0	·1014					
16. 8	46. 15	14. 31	·1007					
		16. 25	·1016					
16. 45	44. 0	17. 44	·1010					
17. 45	46. 20	19. 15	·1018					
18. 48	44. 30		(†)					
		23. 30	·1003					
22. 20	50. 55							
23. 16	55. 20							
23. 29	55. 0							
23. 44	56. 30							
23. 51	55. 30							
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 0	21. 55. 30	0. 30	·1005	0. 30	·01468	1. 40	64 ·0	66 ·5
1. 0	56. 30			1. 10	·01502	3. 40	67 ·0	69 ·0
3. 15	50. 0	3. 15	·1018		·01211	9. 40	63 ·5	65 ·0
6. 14	46. 20			3. 40	·01210	21. 40	59 ·5	61 ·0
7. 4	48. 30	4. 35	·1015	5. 45	·01100			
		4. 45	·1018	7. 0:	·01078			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 14		Sept. 14		Sept. 14				
h m	° ′ ″	h m		h m		h m	°	°
10. 4	21. 48. 0	5. 15	·1010	9. 13	·01186			
10. 29	45. 35	5. 20	·1014	11. 15	·01364			
11. 0	48. 30		***	12. 24	·01394			
11. 35	48. 20	6. 15	·1008	13. 40	·01410			
12. 0	50. 20	6. 45	·1015	18. 24	·01406			
13. 14	49. 25	6. 55	·1014	22. 25	·01377			
13. 40	50. 0	7. 55	·1008	23. 34	·01415			
14. 18	48. 25			23. 57	·01425			
15. 8	48. 30	8. 45	·1000					
15. 29	45. 0	9. 12	·1008					
16. 8	44. 20							
17. 10	49. 50	11. 38	·1022					
18. 0	47. 0	12. 35	·1015					
18. 15	48. 30	13. 0	·1017					
18. 35	46. 30	13. 48	·1021					
		14. 5	·1023					
19. 46	46. 0	14. 15	·1020					
20. 14	47. 40	16. 4	·1026					
		16. 20	·1019					
22. 0	47. 35	17. 36	·1024					
23. 0	54. 25							
23. 39	56. 5	19. 8	·1023					
23. 50	55. 40		***					
23. 59	55. 50	20. 35	·0998					
		21. 12	·1008					
		23. 45	·0996					
		23. 59	·1006					
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
0. 7	21. 58. 20	0. 30	·0995	0. 45	·01365	1. 40	60 ·5	63 ·0
0. 40	54. 55	0. 50	·1004	2. 20	·01180	3. 40	64 ·0	66 ·0
0. 52	55. 50	1. 30	·1008	4. 29	·00538	9. 40	65 ·0	66 ·5
1. 44	52. 50	1. 49	·1012		·00582	23. 0	65 ·0	66 ·0
1. 52	53. 20	2. 14	·1008	7. 15	·00541			
2. 8	51. 40	2. 29	·1018	9. 15	·00476			
2. 29	54. 45	2. 45	·1007	14. 18	·00714			
2. 44	52. 35			18. 57	·00841			
3. 30	49. 40	3. 45	·1005	21. 45	·00817			
	***			23. 40	·00712			
7. 41	46. 0	4. 48	·1014					
8. 2	38. 30	5. 31	·1012					
8. 24	44. 0	5. 46	·1013					
8. 45	42. 20	6. 8	·1006					
9. 3	44. 30	6. 31	·1018					
9. 28	43. 0	6. 47	·1007					
10. 10	46. 0							
10. 24	45. 0	7. 18	·1008					
11. 18	48. 0	8. 0	·1013					
	***	8. 15	·1036					
12. 14	48. 25	8. 45	·1022					
12. 31	50. 0	9. 12	·1030					
13. 32	45. 5	9. 30	·1024					
14. 16	49. 30	10. 30:	·1010					
14. 45	47. 35	11. 30	·1017					
15. 1	50. 30	12. 4	·1018					
15. 31	50. 35	12. 15	·1014					
		13. 15	·1022					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 15		Sept. 15						
h m	° ′ ″	h m		h m		h m	°	
16. 4	21. 47. 35	13. 45	·1014					
	***	14. 30	·1022					
17. 2	44. 35	15. 0	·1016					
	***	16. 25	·1020					
17. 30	47. 0	17. 0	·1010					
	***	18. 5	·1018					
18. 21	44. 40		***					
	***	19. 0	·1014					
18. 51	44. 30	19. 45	·0997					
19. 28	48. 0	20. 35	·1016					
20. 14	45. 35	21. 45	·1004					
	***	23. 35	·1002					
22. 44	51. 0	23. 48	·1000					
23. 18	53. 35							
23. 59	55. 30							
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 0	21. 55. 30	0. 15	·1012	0. 0	·00709	9. 20	68 ·0	70 ·0
1. 8	54. 0	1. 25	·1007	1. 18	·00630	21. 40	64 ·5	66 ·0
1. 45	56. 15	1. 43	·1005	1. 55	·00562			
2. 16	56. 40	2. 10	·1002		·00648			
	***	2. 22	·1009	4. 56	·00704			
3. 22	52. 10	2. 45	·1010	8. 43	·00688			
	***	2. 55	·1004	11. 13	·00641			
3. 48	53. 30	3. 20	·1002	11. 52	·00592			
4. 28	51. 0	3. 25	·0994	12. 23	·00560			
4. 40	51. 5		***	12. 54	·00598			
4. 56	48. 0	3. 55	·1010	16. 58	·00804			
5. 20	49. 10		***	21. 59	·01290			
6. 13	50. 15	4. 28	·1007	23. 59	·01421			
6. 39	49. 0		***					
7. 0	42. 0	4. 50	·0990					
7. 4	42. 50	5. 16	·1007					
7. 17	40. 35	6. 17	·1015					
7. 35	44. 40	6. 50	·1008					
7. 44	43. 30	7. 9	·1011					
7. 52	45. 0	7. 26	·1026					
8. 2	45. 0	7. 41	·1016					
8. 27	41. 20	8. 10	·1009					
9. 16	45. 0		***					
10. 3	47. 0	10. 48	·1010					
	***	11. 10	·1031					
10. 47	45. 40	11. 35	·1013					
	***	11. 54	·1029					
11. 15	49. 10	12. 24	·1013					
11. 44	44. 30	12. 46	·1024					
12. 4	56. 5	13. 25	·1011					
12. 45	44. 15	14. 0	·1012					
13. 15	47. 35	14. 43	·1015					
14. 0	45. 0	17. 25	·1014					
	***	17. 40	·1019					
14. 52	50. 0	18. 45	·1001					
15. 31	47. 10	19. 45	·1003					
17. 0	43. 30	20. 10	·1005					
17. 39	44. 50		***					
18. 50	52. 15	21. 35	·0991					
19. 13	50. 55	23. 15	·0992					
19. 30	51. 20	23. 50	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 16								
h m	° ′ ″	h m		h m		h m	°	
20. 20	21. 48. 30							
	***							
21. 18	48. 30							
	***							
21. 55	50. 55							
23. 59	54. 15							
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 0	21. 54. 15	1. 0	·1010	1. 0	·01471	1. 40	65 ·0	67 ·0
1. 0	54. 35		***	2. 29	·01519	3. 40	66 ·0	68 ·0
2. 0	54. 0	4. 0	·1008	3. 44	·01456	9. 40	67 ·5	68 ·5
3. 33	49. 30		***	5. 47	·01300	21. 40	65 ·0	67 ·0
5. 16	47. 30	5. 0	·1006	8. 34	·01219			
7. 30	50. 0	5. 40	·1013	8. 58	·01190			
7. 49	47. 45	6. 5	·1010	11. 10	·01188			
8. 25	48. 20	6. 15	·1014	11. 45	·01148			
8. 44	52. 15	7. 15	·1010	12. 6	·01130			
9. 0	49. 0	8. 0	·1011	16. 28	·01224			
9. 16	48. 35	8. 15	·1005	19. 59	·01329			
9. 40	44. 30	8. 40	·1024	23. 6	·01302			
9. 53	44. 25	8. 50	·1013	23. 59	·01268			
	***	9. 15	·1011					
10. 31	47. 10	9. 30	·1002					
10. 52	44. 30	10. 0	·1005					
11. 11	52. 50	10. 30	·1000					
12. 5	42. 55	11. 10	·1027					
12. 31	47. 25	11. 30	·1021					
13. 8	43. 30	12. 3	·1010					
13. 52	46. 25	12. 55	·1010					
14. 14	46. 0	13. 3	·1006					
14. 48	49. 10	13. 36	·1006					
	***	13. 55	·0996					
15. 45	44. 45	14. 55	·1000					
16. 16	47. 30	15. 14	·1004					
17. 16	47. 30	16. 18	·0995					
17. 50	44. 35	17. 45	·1006					
18. 30	47. 20	18. 28	·1003					
19. 10	47. 10	19. 12	·1006					
19. 40	45. 15	20. 15	·0988					
	***		***					
21. 16	46. 35	22. 18	·0992					
	***	23. 59	·0994					
23. 59	53. 15							
Sept. 18		Sept. 18		Sept. 18		Sept. 18		
0. 0	21. 53. 20	0. 40	·0997	1. 0	·01150	1. 40	67 ·0	69 ·0
0. 46	54. 10	2. 45	·0998	2. 25	·00980	3. 40	69 ·5	71 ·0
2. 53	50. 35	3. 28	·1002	3. 41	·00739	9. 40	70 ·0	72 ·0
	***		***		·00770	21. 40	65 ·0	67 ·0
4. 0	49. 30	4. 14	·0990	3. 45	·00768			
4. 31	47. 10	6. 15	·0999		·00810			
9. 30	48. 10		***	3. 54	·00806			
	***	10. 45	·1000		·00830			
11. 30	48. 5	12. 19	·1008	5. 16	·00754			
	***	12. 32	·1001	10. 29	·00702			
12. 16	49. 25	13. 5	·0999	12. 34	·00820			
12. 40	46. 35	14. 45	·0996	16. 44	·01121			
	***	15. 15	·1004	20. 26	·01416			
13. 44	45. 0	18. 0	·1003	21. 50	·01558			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.18		Sept.18		Sept.18				
h m	° ′	h m		h m				
14. 30	21. 47. 30 ***	19. 45	·1001	21. 56	·01482			
		23. 15	·0992	23. 0	·01480			
15. 16	48. 0			23. 45	{·01496 ·01420			
16. 9	45. 25							
16. 50	46. 20			23. 59	·01410			
18. 15	46. 0 ***							
20. 32	45. 40 ***							
22. 30	48. 30							
23. 25	51. 25							
Sept.19		Sept.19		Sept.19		Sept.19		
1. 40	21. 54. 34*	1. 40	·1008*	1. 40	·01317*	1. 40	70 ·5	71 ·5
3. 40	47. 45*	3. 40	·1006*	3. 40	·00936*	3. 40	70 ·0	72 ·0
9. 40	47. 32*	9. 40	·1007*	9. 40	·00738*	9. 40	71 ·0	72 ·5
21. 40	45. 4	21. 40	·1012*	21. 40	·01437*	21. 40	63 ·0	65 ·0
Sept.20		Sept.20		Sept.20		Sept.20		
0. 10	21. 50. 20	0. 40	·0999	0. 15	·01145	1. 40	67 ·0	69 ·0
1. 10	51. 35	1. 12	·0992	1. 7	·01009	3. 40	70 ·0	72 ·0
2. 54	48. 40	2. 45	·0993	2. 25	·00779	9. 40	72 ·5	74 ·5
5. 15	46. 10	3. 10	·0999	3. 3	·00816	21. 40	66 ·0	68 ·0
7. 16	44. 15	4. 38	·0998	4. 40	·00860			
8. 15	46. 0	4. 45	·0993	7. 35	·00798			
8. 44	45. 0	5. 12	·0996	9. 56	·00780			
9. 25	46. 0	5. 22	·0989	11. 5	·00860			
10. 45	45. 10	5. 59	·0988	11. 29	·00880			
11. 29	41. 0	6. 3	·0986	13. 10	·01100			
12. 4	44. 40	7. 12	·0992	16. 0	{·01566 ·01460			
12. 15	43. 30	7. 47	·0984					
12. 30	44. 20	8. 0	·0988	18. 31	·01[illegible]			
12. 45	42. 20	8. 37	·0986	22. 0	·01[illegible]			
13. 14	44. 30	8. 45	·0994	23. 4	·01488			
14. 39	46. 0	9. 7	·0988 ***					
14. 54	47. 30							
15. 25	44. 0	10. 10	·0995					
16. 5	43. 30	10. 50	·0991					
17. 34	45. 35	11. 2	·1013					
19. 45	45. 25	11. 28	·1008					
20. 0	44. 30 ***	11. 47	·0994					
		13. 0	·1008 ***					
21. 20	44. 25							
23. 36	49. 25	17. 0	·0999					
23. 59	51. 40	22. 30	·0998					
Sept.21		Sept.21		Sept.21		Sept.21		
0. 8	21. 50. 20 ***	0. 0	·1003	0. 0	·01369	1. 40	69 ·0	72 ·0
		0. 9	·0993	1. 2	·01200	3. 40	71 ·0	73 ·0
1. 51	54. 35 ***	0. 56	·1003	2. 44	{·00796 ·00840	9. 40	73 ·0	75 ·0
		1. 50	·0990			21. 40	64 ·5	67 ·0
2. 41	53. 0 ***	2. 32	·0988	3. 3	{·00859 ·00896			
		3. 0	·1008 ***					
3. 30	47. 5			3. 20	{·00870 ·00920			
4. 0	46. 0 ***	4. 11	·0980					
		4. 28	·0994 ***	4. 25	{·00900 ·00924			
5. 0	48. 30							
6. 8	43. 30 ***	5. 24	·0976	4. 31	{·00900 ·00950			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.21		Sept.21		Sept.21				
h m	° ′	h m		h m				
8. 31	21. 44. 0	3. 45	·0991 ***	7. 45:	·00819			
8. 45	38. 0			10. 31	·00916			
9. 20	44. 0	8. 45	·0988	13. 14	·01188			
9. 31	38. 10	8. 56	·0999	14. 56	·01516			
10. 0	43. 20	9. 25	·0992	15. 1	·01488			
10. 55	41. 45	9. 42	·1014	19. 29	·01469			
11. 42	44. 0	10. 0	·0997	21. 29:	·01424			
11. 57	43. 15	10. 25	·0997	23. 0	·01459			
12. 11	49. 0	10. 35	·1002	23. 54	·01471			
12. 33	49. 55	11. 21	·0993					
13. 17	41. 0	11. 32	·1005					
14. 0	41. 0	11. 47	·1000					
14. 31	44. 30	12. 2	·1020					
15. 15	44. 20	12. 21	·1027					
15. 30	46. 0	13. 10	·0994					
17. 23	44. 40	13. 50	·0989					
18. 30:	48. 15	16. 27	·1000					
19. 29	46. 0	17. 28	·1004					
19. 44	46. 10	17. 50	·0995					
19. 51	44. 35	19. 50	·0996					
20. 18	45. 35	20. 3	·1003					
21. 30	43. 30	23. 55	·1003					
22. 20	49. 0							
23. 21	52. 0							
23. 59	51. 55							
Sept.22		Sept.22		Sept.22		Sept.22		
0. 5	21. 52. 30	0. 1	·1000	0. 0	·01451	1. 40	67 ·0	68 ·5
3. 15	50. 20	2. 0	·0996 ***	1. 11:	·01281	3. 40	72 ·0	74 ·0
4. 45	46. 30			2. 55	·00800	9. 40	74 ·5	76 ·0
6. 14	44. 30	3. 0	·0994	5. 13	·00849	23. 0	63 ·0	66 ·5
6. 30:	42. 40	3. 34	·0995	7. 50	·00794			
7. 6	44. 25 ***	3. 57	·0984 ***	9. 31	·00745			
				11. 28	·00918			
7. 44	43. 30	4. 55	·0992	15. 15	{·01498 ·01456			
8. 8	44. 30 ***	5. 12	·0990 ***					
9. 16	45. 0	8. 15	·0987	22. 10:	·01430			
9. 31	42. 0	9. 0	·0994	23. 29	·01470			
10. 30	45. 50	9. 27	·0990 ***					
11. 1	45. 10							
11. 40	46. 35	10. 17	·0992					
13. 14	47. 0	13. 15	·1002					
13. 30	49. 10	16. 15	·1008					
14. 0	46. 0 ***	17. 50	·1012					
		22. 20	·1000					
14. 39	48. 5	23. 34	·1000					
15. 32	47. 30							
16. 30	47. 50							
17. 52	46. 55							
21. 16	43. 0							
22. 16	47. 10							
23. 14	49. 0							
23. 59	49. 30							
Sept.23		Sept.23		Sept.23		Sept.23		
0. 0	21. 49. 30	0. 0	·1004	0. 0	·01390	8. 40	74 ·0	76 ·0
0. 46	49. 25	1. 30	·1005	1. 45:	·01185	21. 40	68 ·0	69 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Sept.23		Sept.23		Sept.23				
h m	° ′ ″	h m		h m		h m	°	°
2. 30	21. 48. 0	3. 5	·0997	2. 58	·00752			
4. 30	42. 35	3. 56	·0996		(†)			
7. 52	49. 35	7. 5	·0986	8. 45	·00770			
8. 15	43. 10	8. 10	·0988	9. 55	·00765			
12. 5	45. 0	9. 0	·0990	16. 15	·01512			
12. 43	43. 30	9. 45	·0994		·01473			
13. 3	44. 25	11. 0	·0983	20. 41	·01435			
13. 40	43. 30	13. 30	·1004	22. 32	·01401			
	***	19. 30	·1003	23. 59	·01397			
14. 28	43. 35	21. 30	·0993					
16. 13	42. 0	22. 32	·0988					
18. 35	45. 0	23. 59	·0994					
20. 40:	42. 20							
23. 59	49. 55							
Sept.24		Sept.24		Sept.24		Sept.24		
0. 0	21. 49. 55	0. 35	·0996	0. 45	·01436	1. 40	67 ·0	69 ·0
2. 9	52. 30	2. 15	·0998	2. 0:	·01490	3. 40	68 ·5	69 ·0
2. 22	51. 15		***	3. 20	·01417	9. 50	68 ·0	70 ·0
3. 40	48. 55	4. 15	·1004	4. 45	·01290	21. 40	59 ·0	61 ·0
3. 55	49. 5	4. 30	·0996	8. 0:	·01095			
	***	5. 15	·1005	10. 30	·01286			
4. 45	45. 0	5. 40	·1004	11. 40	·01445			
5. 45	49. 30	5. 50	·1009	20. 10	·01430			
6. 6	43. 0	6. 2	·1005	21. 34	·01400			
7. 14	49. 50	6. 35	·1010	22. 34	·01400			
	***	7. 33	·1015	23. 2	·01427			
10. 32	45. 50	13. 45	·1016	23. 59	·01418			
12. 17	47. 50	18. 30	·1021					
12. 32	47. 0	19. 43	·1014					
14. 0	47. 10	20. 30	·1013					
14. 15	48. 15	22. 50	·1002					
14. 30	45. 5							
15. 1	48. 0							
16. 15	46. 35							
18. 14	45. 50							
19. 15	44. 5							
21. 16	46. 0							
23. 0	52. 0							
23. 59	52. 30							
Sept.25		Sept.25		Sept.25		Sept.25		
0. 0	21. 52. 30	0. 0	·1004	0. 0	·01400	1. 40	63 ·0	65 ·5
2. 6	52. 40	2. 30	·1017	2. 10	·01175	3. 40	65 ·0	67 ·0
3. 2	50. 25	3. 0	·1013	4. 45	·00607	9. 40	64 ·0	65 ·5
3. 35	50. 0	3. 25	·1017	4. 47	·00640	21. 40	54 ·0	56 ·0
4. 30	46. 0		***	7. 45:	·00505			
5. 30	45. 30	4. 35	·0998	11. 30	·00905			
	***		***	12. 45	·01135			
9. 15	46. 30	6. 30	·1010	14. 15	·01384			
	***	6. 42	·1013		·01306			
10. 34	45. 30		***	15. 50	·01335			
	***	8. 0	·1015	19. 0	·01342			
12. 29	48. 30		***	22. 5	·01325			
	***	8. 20	·1022	23. 30	·01347			
13. 20	41. 30	8. 36	·1017					
13. 50	46. 25	8. 59	·1018					
14. 8	45. 15	9. 4	·1017					
14. 45	43. 25	11. 57	·1025					

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Sept.25		Sept.25						
h m	° ′ ″	h m		h m		h m	°	°
15. 38	21. 45. 10	12. 41	·1045					
	***	13. 29	·1026					
19. 39	45. 0	14. 13	·1031					
20. 31	42. 50	14. 22	·1025					
22. 20	49. 20	14. 39	·1033					
23. 59	51. 0	14. 55	·1031					
		15. 15	·1038					
		16. 5	·1032					
		16. 58	·1041					
			***					
		18. 15	·1043					
		20. 30	·1039					
		23. 31	·1030					
Sept.26		Sept.26		Sept.26		Sept.26		
0. 0	21. 51. 0	0. 0	·1036	0. 0	·01275	1. 40	59 ·0	61 ·5
1. 14	51. 30		***	0. 45:	·01180	3. 40	64 ·0	66 ·0
	***	1. 15	·1039	2. 46	·00535	9. 40	65 ·0	66 ·0
4. 14	46. 35	1. 42	·1031		·00610	21. 40	55 ·0	56 ·0
7. 38	46. 0	2. 20	·1035	4. 0	·00625			
9. 1	44. 20	3. 0	·1030	4. 44	·00605			
9. 23	45. 15	3. 31	·1028		·00700			
11. 32	44. 30	3. 37	·1034	5. 57	·00[illegible]			
12. 0	46. 0	3. 50	·1024		·00[illegible]			
12. 52	45. 35	4. 46	·1020	7. 30:	·00600			
13. 14	47. 25	5. 3	·1023	11. 0	·00668			
13. 40	45. 25	5. 26	·1019	14. 0	·01[illegible]			
14. 30	45. 50		***	15. 40	·01522			
15. 1	48. 55	5. 48	·1019	19. 0	·01273			
15. 50	45. 30	6. 2	·1029	20. 15	·0123[illegible]			
17. 30	47. 30	6. 46	·1018	21. 45:	·01256			
20. 40	44. 25	7. 27	·1022	22. 55	·01276			
21. 45	45. 30	7. 33	·1014					
22. 9	43. 5	7. 42	·1024					
23. 59	49. 35	8. 22	·1014					
		8. 41	·1022					
		8. 57	·1020					
		9. 7	·1028					
		9. 30	·1022					
		11. 0	·1025					
		12. 45	·1028					
		13. 45	·1038					
			***					
		14. 30	·1032					
		15. 17	·1036					
		18. 5	·1041					
		20. 10	·1040					
		22. 20	·1031					
		23. 53	·1028					
Sept.27		Sept.27		Sept.27		Sept.27		
0. 0	21. 49. 40	0. 0	·1023	0. 0	·01275	1. 40	58 ·0	60 ·5
	***	0. 41	·1030	1. 15:	·01054	3. 40	64 ·0	66 ·0
1. 49	51. 10	0. 50	·1026	3. 12	·00595	9. 40	67 ·0	69 ·0
2. 40	50. 0	1. 55	·1034		·00634	21. 40	66 ·0	67 ·0
	(†)	2. 5	·1029	5. 0	·00673			
4. 45	46. 0	3. 0	·1034		·00740			
5. 30	45. 10	3. 15	·1032	6. 35	·00651			
5. 43	47. 0		(†)		·00740			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

September 24. There is some uncertainty in the times both of the Declination and of the Horizontal Force, owing to an irregularity in the going of the time-piece.

Göttingen Mean Solar Time.	Western Declination.
Sept. 27	
h m	° ′ ″
6. 57	21. 44. 55
	***
7. 46	45. 0
8. 7	43. 50
9. 15	44. 35
10. 0	37. 30
10. 30	29. 0
11. 15	44. 0
11. 52	41. 0
12. 46	44. 55
	***
14. 15	46. 40
14. 22	48. 30
14. 45	47. 20
15. 1	44. 10
15. 28	48. 20
15. 34	46. 0
15. 45	47. 10
15. 55	44. 25
	***
16. 30	43. 10
17. 0	45. 5
17. 55	45. 30
18. 39	49. 30
	***
19. 14	49. 0
	***
19. 55:	54. 20
	***
20. 30	50. 0
20. 52	48. 30
	***
21. 44	50. 30
22. 24	54. 30
	***
23. 8	56. 10
23. 20	55. 30
23. 59	56. 35
Sept. 28	
0. 0	21. 56. 30
0. 46	58. 0
1. 3	57. 0
1. 24	57. 35
1. 55	53. 5
2. 10	53. 10
2. 40	56. 0
2. 45	53. 0
	***
4. 14	54. 35
4. 50	51. 30
5. 7	47. 20
5. 15	46. 0
5. 59	47. 0
6. 20	49. 0
7. 6	49. 25
	***
8. 50	44. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 27	
h m	
4. 45	·1035
5. 45	·1033
6. 21	·1023
6. 56	·1029
7. 40	·1026
7. 45	·1022
8. 8	·1021
8. 39	·1014
9. 0	·1015
9. 12	·1022
9. 30	·1022
9. 37	·1015
10. 15	·1010
10. 53	·1027
11. 15	·1026
11. 44	·1021
13. 7	·1036
13. 15	·1033
14. 15	·1037
14. 25	·1042
14. 37	·1038
14. 42	·1042
14. 57	·1033
15. 36	·1028
15. 45	·1034
17. 25	·1042
18. 5	·1036
	***
19. 6	·1010
19. 29	·1022
19. 34	·1015
21. 0	·1018
21. 43	·0998
21. 49	·1004
22. 45	·0996
23. 27	·1005
23. 59	·0998
Sept. 28	
0. 5	·0998
0. 55	·1003
1. 15	·0996
1. 51	·1011
2. 25	·1020
2. 31	·1002
2. 37	·1014
2. 59	·1014
3. 11	·1009
3. 44	·1014
4. 17	·1002
4. 26	·1004
4. 44	·0994
5. 1	·1007
5. 16	·1004
5. 26	·1008
5. 40	·1002
6. 13	·1010

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 27	
h m	
8. 0	·00625
12. 0	·00561
14. 0	·00550
16. 45	·00580
19. 30	·00640
21. 45	·00744
23. 50	·00820
Sept. 28	
0. 15	·00800
1. 30	·00805
3. 17	·00680
	·00758
4. 27	·00745
	·00850
8. 20	·00738
10. 15	·00715
11. 45	·00750
16. 0	·00976
21. 45	·01326
23. 55	·01365

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 28	°	°
1. 40	68 ·5	70 ·0
3. 40	69 ·0	71 ·0
9. 40	69 ·0	71 ·0
21. 40	66 ·0	68 ·0

Göttingen Mean Solar Time.	Western Declination.
Sept. 28	
h m	° ′ ″
9. 16	21. 46. 30
10. 5	46. 0
10. 25	46. 30
10. 45	44. 0
11. 1	42. 0
11. 22	45. 0
11. 32	44. 55
11. 46	46. 25
12. 16	45. 25
	***
13. 8	46. 55
	***
14. 15	44. 0
14. 45	47. 30
15. 0	44. 0
	***
15. 30	44. 30
15. 45	46. 30
16. 24	42. 30
17. 10	46. 10
17. 50	49. 0
	***
19. 0	47. 30
19. 36	49. 10
	***
20. 45	46. 5
21. 16	46. 0
22. 10	50. 0
22. 24	48. 25
22. 44	50. 0
23. 25	49. 20
23. 44	50. 50
23. 55	50. 30
Sept. 29	
0. 0	21. 51. 0
0. 14	52. 35
0. 50	50. 25
1. 0	51. 35
	***
2. 6	51. 40
3. 0	49. 10
5. 35	47. 30
6. 30	48. 30
7. 25	47. 50
8. 37	46. 30
9. 15	41. 15
	***
9. 45	39. 40
10. 5	43. 50
10. 15	42. 25
10. 31	49. 0
11. 13	43. 0
12. 0	47. 0
12. 17	45. 0
13. 28	45. 15
13. 52	47. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 28	
h m	
6. 29	·1016
6. 41	·1007
7. 7	·1005
7. 20	·1015
7. 45	·1019
8. 30	·1016
9. 59	·1016
10. 15	·1021
10. 32	·1016
11. 9	·1032
11. 15	·1020
11. 33	·1019
13. 14	·1026
13. 35	·1017
13. 44	·1025
14. 15	·1021
14. 51	·1024
14. 35	·1019
15. 0	·1020
15. 36	·1030
15. 50	·1027
16. 0	·1031
16. 40	·1030
16. 58	·1023
18. 10	·1021
19. 27	·1027
19. 40	·1018
21. 12	·1008
21. 29	·1011
22. 10	·0993
22. 30	·1002
23. 32	·1010
Sept. 29	
0. 0	·1013
0. 45	·1010
1. 18	·1017
1. 30	·1012
1. 45	·1015
2. 0	·1005
2. 27	·1008
2. 59	·1004
3. 24	·1013
4. 36	·1013
6. 0	·1012
7. 28	·1016
7. 55	·1013
8. 45	·1014
9. 17	·1033
9. 44	·1016
9. 58	·1045
10. 20	·1018
10. 59	·1010
11. 50	·1023
12. 3	·1017
12. 48	·1019

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 29	
0. 0	·01343
2. 0	·01206
5. 45	·00830
7. 25	·00715
	·00768
9. 45	·00754
	***
11. 0	·00751
15. 15	·00940
19. 0	·01176
21. 20	·01350
23. 30	·01335

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 29	°	°
1. 40	68 ·5	70 ·0
3. 40	69 ·0	71 ·0
9. 40	69 ·0	72 ·0
22. 55	67 ·0	69 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 29		Sept. 29						
h m	° ′ ″	h m		h m		h m	°	°
14. 16	21. 44. 50	12. 59	·1016					
16. 15	45. 0	14. 24	·1020					
17. 15	46. 30	15. 12	·1016					
18. 40	47. 55	16. 30	·1018					
18. 55	46. 25	18. 13	·1020					
19. 14	46. 45	18. 25	·1016					
20. 8	45. 0	18. 40	·1018					
22. 19	47. 25	18. 48	·1016					
23. 8	51. 0	19. 5	·1020					
23. 59	52. 15	21. 40	·1006					
		23. 27	·1000					
Sept. 30		Sept. 30		Sept. 30		Sept. 30		
0. 0	21. 52. 15	0. 0	·1012	0. 0	·01330	9. 45	68 ·0	69 ·0
2. 15	52. 0	2. 35	·1015	1. 45	·01255	21. 40	64 ·0	65 ·5
4. 36	48. 25	2. 50	·1018	4. 15	·00940			
6. 36	46. 40	3. 5	·1016	5. 55	·00766			
7. 41	47. 40	5. 9	·1020		·00818			
8. 1	45. 0	6. 5	·1015	8. 0	·00775			
8. 17	40. 40	6. 33	·1010	9. 30	·00770			
	***	7. 35	·1021	10. 0	·00764			
9. 25	46. 35	7. 59	·1014	11. 15	·00851			
	***	8. 25	·1025	13. 45	·01197			
10. 27	46. 0	9. 30	·1021	16. 0	·01489			
	***	9. 37	·1023	16. 5	·01452			
12. 36	48. 35	10. 50	·1020	18. 30	·01475			
	***	12. 50	·1024	23. 59	·01467			
13. 29	46. 0	13. 20	·1021					
	***	15. 0	·1022					
16. 30	48. 25	15. 30	·1027					
	***	16. 10	·1026					
19. 45	47. 0	17. 8	·1032					
	***	19. 15	·1033					
21. 28	45. 20	20. 0	·1029					
23. 59	52. 20	20. 25	·1030					
		23. 18	·1013					
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
0. 0	21. 52. 25	0. 36	·1014	1. 40	·01333*	1. 40	67 ·0	70 ·0
0. 40	52. 30	0. 46	·1010	3. 40	·00991	3. 40	67 ·0	69 ·0
	***	1. 17	·1015	9. 40	·00708*	9. 40	69 ·5	72 ·0
2. 31	52. 5		***	21. 40	·01404*	21. 40	61 ·0	62 ·5
4. 15	49. 30	3. 0	·1000					
5. 50	48. 25	3. 30	·1005					
6. 33	45. 0	3. 52	·0996					
7. 15	45. 35	4. 18	·0999					
7. 41	44. 30		***					
8. 45	45. 30	5. 27	·0998					
10. 31	45. 15	5. 34	·1002					
10. 51	46. 25	6. 0	·0998					
	***	6. 42	·1002					
13. 55	45. 20	7. 13	·0999					
	***	7. 27	·1000					
16. 6	47. 25	7. 35	·1003					
16. 58	45. 30	8. 10	·1002					
18. 47	46. 20		***					
19. 45	45. 35	10. 10	·1011					
20. 10	47. 0	11. 30	·1013					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 1		Oct. 1						
h m	° ′ ″	h m		h m		h m	°	°
22. 30	21. 47. 25	15. 55	·1016					
23. 59	49. 10	16. 45	·1021					
		17. 28	·1017					
		19. 50	·1024					
		20. 12	·1021					
		22. 0	·1018					
		22. 35	·1016					
		23. 59	·1022					
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
0. 0	21. 49. 15	0. 35	·1020	0. 30	·01428	1. 40	62 ·0	64 ·0
2. 46	50. 20			2. 15	·01310	3. 40	64 ·5	66 ·0
5. 14	48. 0	2. 3	·1021	4. 45	·00786	9. 40	65 ·0	67 ·0
8. 2	45. 40		**		·00540	21. 40	58 ·0	60 ·0
8. 16	44. 0	5. 54	·1017	6. 17	·00617			
9. 24	45. 50	6. 15	·1020	9. 15	·00540			
11. 14	43. 0	8. 10	·1023	12. 0	·00704			
11. 55	45. 0	8. 25	·1017	15. 0	·01019			
12. 50	42. 20	8. 45	·1023	17. 10	·01340			
13. 9	44. 35	9. 25	·1018		·01286			
13. 30	43. 35	11. 0	·1025	18. 45	·01290			
13. 45	44. 30	11. 25	·1022	21. 30	·01307			
14. 15	42. 15	11. 58	·1027	23. 59	·01324			
14. 45	43. 50	12. 12	·1025					
15. 13	41. 20	13. 44	·1019					
16. 17	45. 45	14. 2	·1028					
	***	14. 26	·1026					
17. 29	47. 10	14. 57	·1026					
17. 52	45. 0	15. 16	·1023					
18. 16	47. 0	16. 16	·1026					
19. 0	48. 0		***					
19. 32	50. 0	17. 15	·1024					
20. 15	48. 0	17. 59	·1038					
21. 9	49. 30		**					
21. 45	48. 45	19. 14	·1029					
23. 25	50. 0	19. 46	·1041					
23. 31	48. 45		***					
23. 59	50. 35	20. 26	·1039					
		21. 4	·1042					
		22. 32	·1036					
			***					
		23. 45	·1016					
		23. 59	·1020					
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
0. 0	21. 50. 55	0. 0	·1020	0. 30	·01310	1. 40	59 ·0	61 ·0
0. 31	51. 25	0. 30	·1015	1. 45	·01245	3. 40	62 ·0	63 ·0
1. 13	56. 35		***	2. 45	·01160	9. 40	63 ·5	64 ·0
	***	1. 14	·1020	4. 29	·00917	21. 40	63 ·5	65 ·0
1. 47	54. 30	1. 45	·1001	5. 45	·00790			
2. 0	46. 30	1. 59	·1014	6. 45	·00648			
2. 14	46. 0	2. 10	·1003		·00697			
2. 31	58. 50	2. 30	·1006	8. 30	·00668			
2. 46	45. 40	2. 42	·0999	11. 35	·00565			
3. 8	21. 46. 30		***	12. 10	·00488			
3. 23	22. 0. 30	3. 3	·1007		***			
3. 46	21. 57. 50	3. 12	·1017	16. 0	·00518			
	**	3. 32	·1001	20. 45	·00579			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 3		Oct. 3		Oct. 3				
h m	° ′ ″	h m		h m		h m	°	°
4. 40	21. 58. 35	3. 48	·1023	23. 59	·00561			
4. 56	22. 2. 25	3. 58	·1004					
		4. 2	·1009					
			***					
5. 29	21. 54. 0							
		4. 44	·1018					
5. 58	56. 35	5. 0	·0999					
6. 22	54. 15	5. 15	·0987					
		5. 25	·0998					
6. 56	49. 0	5. 40	·0999					
7. 16	51. 20	5. 46	·0996					
7. 40	45. 0	6. 0	·0988					
		6. 11	·0997					
8. 28	44. 0	6. 26	·0988					
			***					
9. 34	46. 30	7. 2	·0994					
10. 2	45. 10	8. 0	·0994					
10. 14	43. 20							
10. 21	43. 30	9. 19	·0998					
10. 44	40. 0	10. 8	·1007					
11. 3	39. 45	10. 18	·1013					
11. 15	38. 20	10. 26	·1006					
11. 27	38. 35	10. 45	·1007					
11. 41	44. 40	10. 51	·1001					
11. 47	44. 0	11. 0	·1003					
12. 5	44. 40	11. 18	·0998					
12. 37	39. 5	11. 25	·1002					
13. 0	38. 35	11. 50	·1031					
13. 35	45. 15	12. 45	·1004					
14. 31:	42. 15	13. 15	·1008					
16. 0:	46. 10	13. 28	·1002					
17. 50	47. 25	13. 55	·1016					
19. 59	44. 35	14. 12	·1013					
20. 14	45. 25	14. 25	·1018					
20. 39	44. 0	14. 57	·1014					
23. 30	48. 35	17. 17	·1012					
23. 59	50. 35	17. 33	·1014					
		18. 21	·1013					
		18. 33	·1015					
		19. 15	·1017					
		19. 37	·1015					
		19. 56	·1016					
		20. 33	·1015					
		20. 42	·1016					
		20. 54	·1015					
		23. 59	·1006					
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
0. 0	21. 50. 40	0. 0	·1006	1. 0	·00527	1. 40	64 ·0	65 ·5
1. 15	54. 0	0. 35	·1010	1. 20	·00518	3. 40	68 ·0	69 ·5
2. 36	53. 5	1. 0	·1005		·00596	9. 40	67 ·0	69 ·0
4. 52	48. 40	1. 16	·1009	1. 25	·00595	21. 40	60 ·0	61 ·0
6. 44	46. 25	1. 32	·1004		·00670			
7. 0	43. 15	2. 45	·1008	2. 30	·00620			
7. 20	44. 50	3. 45	·1012	6. 30	·00611			
7. 45	44. 10	4. 30	·1006	8. 25	·00607			
8. 55	47. 0	6. 0	·1010	10. 50:	·00729			
9. 45	46. 0	6. 55	·1008	11. 15	·00708			
		7. 7	·1013	11. 30	·00750			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 4		Oct. 4		Oct. 4				
h m	° ′ ″	h m		h m		h m	°	°
10. 22	21. 47. 30	7. 40	·1006	13. 45	·00 47			
11. 25	31. 50	9. 56	·1011	14. 5	·00950			
11. 44	24. 30	10. 3	·1025	14. 45	·01030			
12. 16	27. 0	10. 15	·1016	15. 0	·00967			
12. 54	38. 5	10. 20	·1023	15. 15	·01045			
	***	10. 30	·1012		***			
13. 27	39. 0	10. 36	·1016	15. 30	·00990			
13. 44	44. 50	10. 45	·1007	16. 40	·01073			
14. 31	26. 40	11. 28	·0976	16. 15	·01047			
14. 58	47. 0	11. 30	·0990	16. 35	·01125			
15. 16	58. 0	11. 52	·0963		·01093			
15. 43	44. 0	12. 0	·0988	17. 0	·01097			
16. 0	41. 5	12. 10	·0992	18. 30	·01275			
16. 6	42. 10	12. 28	·0972		***			
16. 18	36. 0	13. 15	·1011	21. 0	·01341			
16. 44	38. 35	13. 28	·1024	22. 45	·01337			
	***	13. 44	·1008	23. 59	·01276			
17. 2	38. 30	13. 52	·1009					
17. 29	44. 45	14. 5	·0993					
	***	14. 18	·0992					
17. 57	42. 35	14. 30	·0976					
18. 1	44. 40	14. 46	·0993					
18. 9	42. 20	14. 50	·0992					
18. 55	47. 0	15. 14	·1036					
19. 2	45. 10	15. 25	·1031					
19. 30	46. 30	15. 35	·1032					
19. 49	49. 50	15. 45	·1038					
20. 2	45. 15	15. 58	·1056					
20. 31	44. 35	16. 10	·1039					
21. 8	49. 15	16. 14	·1041					
21. 59	46. 30	16. 32	·1035					
	***	16. 47	·1034					
23. 59	50. 40	17. 4	·1016					
		17. 28	·1003					
		18. 1	·1019					
		18. 10	·1012					
			***					
		18. 51	·1026					
		19. 6	·1017					
		19. 9	·1016					
		19. 46	·1002					
		20. 0	·0988					
		20. 40	·1010					
		21. 8	·1010					
		21. 50	·0986					
		22. 30	·1002					
		23. 10	·1004					
		23. 59	·1003					
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
0. 0	21. 50. 45	0. 0	·1003	0. 4	·01249	1. 40	62 ·0	63 ·0
2. 0	53. 40		***	2. 15	·01126	3. 40	64 ·0	65 ·0
5. 14	47. 5	1. 45	·1002	4. 35	·00607	9. 40	63 ·5	65 ·0
6. 30	45. 55	2. 28	·0999		·00655	21. 40	60 ·0	61 ·0
8. 24	47. 5		***	6. 15	·00590			
11. 45	48. 0	3. 57	·1003	8. 0	·00500			
15. 2	47. 0	4. 5	·1006	11. 15	·00613			
15. 51	48. 30	4. 45	·1004	15. 45	·00818			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 5		Oct. 5		Oct. 5		h m		
h m	° ′ ″	h m		h m				
17. 0	21. 47. 35	9. 30	·1011	18. 0	·00881			
17. 15	48. 30	15. 0	·1010	21. 30	·01262			
20. 15	45. 45	15. 8	·1018	22. 45:	·01338			
20. 41	44. 0	15. 25	·1014	23. 59	·01287			
21. 55	47. 0	15. 45	·1017					
22. 35	46. 30	15. 55	·1012					
23. 40	48. 0	17. 0	·1019					
23. 59	49. 15	17. 17	·1014					
		17. 45	·1020					
		18. 59	·1024					
		21. 5	·1021					
		21. 45	·1016 (†)					
		23. 30	·0998					
		23. 59	·0994					
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
0. 0	21. 49. 25	0. 0	·0994	1. 0	·01174	1. 40	63 ·5	64 ·8
1. 56	52. 45	1. 45	·0992	2. 25	·00850	3. 40	66 ·0	67 ·0
4. 20	48. 10	2. 45	·1001	2. 33	·00843	9. 40	67 ·0	67 ·5
6. 36	45. 0	3. 0	·0996		·00903	23. 0	63 ·5	65 ·0
11. 30	48. 30	3. 20	·1002	3. 20	·00827			
		3. 50	·0998		·00870			
16. 50	47. 25	12. 45	·1004	3. 38	·00850			
		14. 3	·1009		·00908			
19. 0	46. 30	14. 20	·1008	4. 44	·00832			
21. 5	43. 40	18. 0	·1018		·00878			
22. 34	48. 10	18. 27	·1016	8. 0	·00776			
23. 59	50. 0	19. 45	·1015	10. 15	·00754			
		21. 0	·1007	12. 30	·00800			
		23. 59	·0989	16. 30	·01023			
				19. 45	·01204			
				22. 25:	·01293			
				23. 59	·01245			
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
0. 0	21. 50. 10	0. 0	·0989	0. 15	·01238	9. 45	64 ·0	65 ·5
1. 14	51. 0			1. 45:	·01165	21. 40	60 ·0	61 ·0
3. 31	43. 10	4. 25	·1002	3. 15	·01010			
4. 40	47. 0	4. 34	·0998	7. 25:	·00753			
6. 30	45. 50	5. 45	·1000	12. 0	·00902			
7. 40	46. 30	7. 0	·1008	13. 30	·00975			
8. 4	45. 0	7. 45	·1008	16. 0	·01076			
8. 25	46. 15	7. 59	·1006	18. 20	·01225			
8. 41	43. 50	9. 5	·1013	22. 20	·01207			
9. 32	47. 0	9. 18	·1010	23. 59	·01157			
10. 59	46. 30	10. 15	·1013					
11. 16	44. 30	10. 45	·1010					
12. 0	46. 35	11. 2	·1029					
		11. 35	·1011					
14. 0	46. 0	13. 2	·1016					
15. 17	47. 30	13. 17	·1011					
18. 30	46. 10	13. 30	·1014					
20. 6	44. 0	15. 40	·1015					
20. 34	43. 30	16. 0	·1017					
21. 58	46. 0	19. 0	·1020					
		20. 16	·1016					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 7		Oct. 7						
h m	° ′ ″	h m						
23. 53	21. 52. 0	21. 0	·1010					
23. 59	51. 40	23. 59	·0995					
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 0	21. 51. 40	0. 0	·0994	0. 30	·01082	1. 40	63 ·0	64 ·8
0. 46	52. 50	0. 25	·0997	1. 30	·00927	3. 40	64 ·0	65 ·0
3. 10	50. 10	1. 31	·1000	2. 25	·00752	9. 40	66 ·0	67 ·5
5. 1	46. 35		***			21. 40	58 ·0	59 ·0
		2. 54	·1004	3. 40	·00758			
7. 43	46. 0	4. 20	·1002	5. 0:	·00782			
	***	5. 15	·1002	9. 10:	·00698			
8. 47	48. 0	8. 0	·1006	11. 0	·00800			
9. 5	46. 30	8. 58	·1005	14. 35	·01263			
9. 21	47. 35	9. 4	·1010	21. 24	·01167			
9. 31	46. 30	9. 26	·1008	23. 59	·01187			
11. 15	48. 35	9. 31	·1012					
	***	10. 45	·1008					
15. 3	47. 30	17. 29	·1028					
17. 28	48. 0	17. 32	·1034					
19. 53	46. 35	19. 0	·1036					
21. 52	44. 30							
	***	20. 45	·1034					
23. 59	50. 30	22. 5	·1024					
		22. 25	·1028					
		23. 59	·1016					
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
0. 0	21. 51. 0	0. 0	·1016	0. 45	·01197	1. 40	59 ·0	60 ·5
0. 45	54. 0	0. 50	·1017	2. 15	·01160	3. 40	60 ·5	62 ·0
1. 14	53. 40	1. 15	·1014	3. 30:	·01036	9. 40	62 ·0	64 ·0
1. 45	55. 30	1. 43	·1018			21. 40	57 ·0	59 ·0
2. 51	51. 5	2. 21	·1015	5. 35	·00630			
3. 45	53. 25	2. 45	·1023	7. 30	·00623			
	***	3. 13	·1018	13. 30	·00602			
6. 45	48. 20	3. 49	·1022	16. 0	·00689			
8. 59	48. 40	4. 4	·1021	19. 15	·00927			
9. 59	47. 0	5. 8	·1023	21. 55	·01181			
10. 15	47. 30	5. 17	·1020	23. 55	·01180			
10. 50	43. 25	5. 35	·1023					
	***							
12. 22	44. 25	7. 7	·1050					
12. 41	43. 30							
12. 55	40. 0	9. 23	·1033					
13. 2	41. 15	9. 29	·1019					
13. 15	39. 0	9. 33	·1026					
13. 30	39. 30	10. 4	·1027					
13. 40	42. 0	10. 16	·1028					
14. 19	41. 35	10. 21	·1038					
			***					
15. 41	47. 30	10. 52	·1027					
16. 19	46. 0	11. 8	·1031					
16. 31	42. 55	11. 31	·1026					
17. 7	47. 30	11. 41	·1040					
18. 1	48. 0	11. 47	·1022					
	***	11. 55	·1038					
20. 31	47. 10	12. 10	·1032					
	***	12. 15	·1040					
21. 36	45. 0	12. 26	·1033					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Oct. 9	
h m	° ′ ″
22. 14	21. 47. 10
23. 14	48. 0
23. 35	50. 35
23. 50	50. 40
Oct. 10	
0. 0	21. 49. 40
0. 7	48. 55
0. 31	48. 15
0. 50	50. 50
1. 2	50. 0
2. 0	52. 30
2. 36	50. 10
4. 30	47. 0
5. 30	46. 10
7. 6	44. 30
	***
9. 44	46. 30
9. 55	43. 40
10. 27	44. 0
10. 52	46. 0
11. 14	44. 35
11. 46	45. 20
12. 0	43. 30
12. 30	46. 0
13. 10	47. 10
	***
13. 53	47. 15
14. 2	50. 0
14. 15	49. 10
14. 35	51. 35
15. 15	45. 0
15. 52;	46. 30
16. 40;	42. 0
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 9	
h m	
12. 45	·1030
12. 51	·1018
13. 7	·1023
13. 15	·1016
13. 22	·1017
13. 33	·1012
14. 55	·1017
15. 4	·1024
	***
15. 51	·1037
16. 1	·1022
16. 10	·1033
16. 30	·1014
16. 34	·1006
16. 44	·1025
17. 1	·1017
17. 18	·1015
17. 37	·1023
	***
20. 15	·1022
	***
21. 30	·1009
	***
22. 13	·1016
22. 52	·1013
23. 20	·1016
23. 51	·1022
Oct. 10	
0. 0	·1011
0. 40	·1014
0. 58	·1010
1. 47	·1017
2. 3	·1016
4. 30	·1015
4. 50	·1014
6. 38	·1019
7. 0	·1017
7. 22	·1022
7. 50	·1019
8. 15	·1022
8. 30	·1018
9. 10	·1026
9. 22	·1024
9. 31	·1027
9. 45	·1022
10. 15	·1027
10. 24	·1024
10. 45	·1026
11. 29	·1023
11. 47	·1026
12. 6	·1020
12. 30	·1025
12. 42	·1023
13. 45	·1024
15. 1	·1037
15. 29	·1023
16. 31	·1036

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 10	
h m	
0. 0	·01160
1. 0	·01186
3. 30;	·01126
5. 45	·00846
7. 15	·00731
9. 12;	·00673
11. 5	·00723
12. 18	·00803
15. 30	·00963
17. 10	·01073
18. 38	·01169
21. 0	·01176
22. 50	·01162
23. 59	·01126

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 10		
h m	°	°
1. 40	58 ·5	58 ·0
3. 40	59 ·5	60 ·0
9. 40	59 ·0	59 ·0
21. 40	55 ·5	57 ·0

Göttingen Mean Solar Time.	Western Declination.
Oct. 10	
h m	° ′ ″
17. 20	21. 46. 0
18. 0	44. 30
18. 18	45. 25
	***
21. 25	47. 30
21. 35	45. 35
	***
22. 29	48. 25
22. 36	51. 10
23. 2	49. 35
23. 22	52. 0
23. 44	53. 30
Oct. 11	
0. 5	21. 53. 10
	***
1. 10	51. 25
1. 30	52. 10
1. 44	51. 5
2. 8;	54. 0
	***
2. 52	50. 20
3. 20	48. 25
3. 55	53. 0
5. 0	44. 35
5. 44	46. 30
	***
6. 34	46. 30
7. 10	45. 0
7. 40	46. 30
8. 7	44. 35
8. 25	41. 0
8. 55	43. 30
9. 30	42. 25
10. 16	44. 30
10. 30	43. 30
11. 0	43. 10
11. 15	44. 35
	***
12. 9	44. 0
	***
12. 43	45. 0
13. 8	47. 30
13. 33	45. 10
14. 29	46. 0
14. 46	50. 35
15. 4	45. 0
15. 20	43. 35
15. 44	46. 0
16. 22	47. 25
17. 25	46. 35
18. 0	45. 10
18. 34	46. 30
19. 33	45. 10
20. 14	47. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 10	
h m	
16. 50	·1034
17. 10	·1028
17. 31	·1033
18. 42	·1028
19. 5	·1033
	***
19. 45	·1028
21. 0	·1023
21. 25	·1017
	***
22. 50	·1016
23. 5	·1016
23. 20	·1018
23. 35	·1012
23. 59	·1016
Oct. 11	
0. 0	·1015
0. 57	·1030
	***
1. 45	·1027
2. 12	·1033
2. 50	·1014
2. 59	·0996
3. 31	·1024
4. 0;	·1014
4. 28	·1022
5. 40	·1019
6. 6	·1020
6. 10	·1025
7. 12	·1016
7. 30	·1021
7. 48	·1016
8. 4	·1018
8. 16	·1016
8. 44	·1020
8. 58	·1016
9. 15	·1020
9. 47	·1010
10. 34	·1020
11. 5	·1016
11. 20	·1014
11. 33	·1016
11. 43	·1014
12. 0	·1019
12. 40	·1020
13. 55	·1022
14. 0	·1018
14. 33	·1020
14. 55	·1014
15. 12	·1020
15. 37	·1030
	***
16. 2	·1027
	***
17. 34	·1023
18. 1	·1023
18. 7	·1028

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 11	
h m	
0. 15	·00978
1. 0	·00923
2. 30	·00826
3. 55;	·00627
4. 56	·00368
6. 12	·00383
8. 15	·00369
17. 0	·00318
21. 40	·00336
22. 0	·00316
23. 15	·00324
	·00691
23. 59	·00680

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 11		
h m	°	°
1. 40	56 ·5	57 ·2
3. 40	60 ·0	61 ·0
9. 40	62 ·0	63 ·0
21. 40	61 ·0	62 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 11		Oct. 11						
h m	° ′ ″	h m		h m		h m	°	°
20. 50	21. 44. 0	19. 3	·1023					
	***	20. 0	·1010					
23. 15	46. 35	20. 15	·1018					
	***	20. 58	·1015					
23. 50	50. 45	22. 15	·1013					
			***					
		23. 15	·1010					
		23. 50	·1014					
		23. 59	·1012					
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 0	21. 51. 0	0. 0	·1012	0. 20	·00672	1. 40	62 ·0	63 ·0
	***	0. 10	·1006	2. 0	·00645	3. 40	63 ·1	64 ·5
0. 52	49. 40	0. 25	·1016	3. 0	·00583	9. 40	64 ·0	65 ·0
1. 20	52. 5		***	9. 15	·00503	21. 40	58 ·0	59 ·0
	***	0. 42	·1004	12. 0	·00540			
3. 15	49. 30	1. 15	·1015	12. 45	·00542			
5. 50	45. 20	1. 42	·1012	15. 15	·00738			
6. 17:	43. 25	2. 0	·1019	16. 35	·00843			
6. 35	44. 40	2. 30	·1013	18. 28	·01077			
7. 5	44. 35	2. 37	·1012	23. 59	·01028			
7. 25	46. 30	3. 2	·1015					
7. 47	45. 30	3. 13	·1012					
8. 14	46. 25	3. 50	·1014					
10. 16	46. 0	4. 22	·1013					
10. 29	42. 50	4. 37	·1015					
	***	5. 45	·1019					
11. 17	43. 30	6. 19	·1012					
11. 31	45. 0	6. 37	·1018					
11. 45	44. 5	6. 50	·1018					
12. 0	37. 25	7. 14	·1023					
12. 32	44. 40	7. 28	·1017					
13. 2	43. 50	7. 42	·1014					
13. 15	44. 35	8. 30	·1018					
13. 45	42. 0	8. 45	·1015					
	***	9. 5	·1017					
15. 29	46. 0	10. 19	·1010					
15. 46	42. 40	11. 15	·1007					
	***	11. 40	·1007					
16. 15	42. 50	12. 0	·1039					
16. 28	45. 0	12. 55	·1018					
17. 50	48. 0	14. 45	·1021					
	***	14. 57	·1018					
19. 45	48. 0	15. 7	·1018					
	***	15. 39	·1032					
20. 44	45. 0	16. 4	·1021					
21. 8	45. 30	16. 24	·1029					
21. 39	43. 30	16. 34	·1022					
	***	16. 55	·1024					
23. 16	49. 0	19. 12	·1027					
23. 31	50. 35	20. 37	·1023					
23. 43	50. 25	21. 15	·1016					
23. 46	51. 20	22. 15	·1018					
23. 59	51. 0	22. 30	·1029					
		23. 15	·1026					
		23. 20	·1027					
		23. 44	·1017					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 51. 0	0. 41	·1010	0. 0	·01043	1. 40	59 ·5	60 ·0
2. 7	51. 0	1. 30	·1015	2. 15:	·01046	3. 40	62 ·0	63 ·0
4. 44	46. 0	2. 4	·1010	4. 26	·00464	9. 40	62 ·0	63 ·
6. 45	44. 10	2. 40	·1012	5. 10	·00483	23. 25	55 ·0	55 ·
	***	2. 56	·1016	6. 0	·00458			
9. 51	46. 40	3. 25	·1012	8. 0:	·00420			
10. 49	45. 10	4. 5	·1014	10. 6	·00518			
11. 13	43. 25	4. 44	·1010	12. 35	·00758			
	***	4. 59	·1015	13. 30	·00825			
12. 24	44. 55	5. 18	·1011	15. 18	·01063			
12. 50	51. 20	6. 25	·1014	18. 3	·01045			
13. 15	50. 30	6. 35	·1012	22. 15	·01040			
13. 31	47. 30	7. 30	·1019	23. 59	·00996			
14. 0	45. 15	8. 35	·1018					
15. 14	47. 30	9. 5	·1022					
15. 32	45. 0	9. 25	·1018					
16. 30	48. 0	10. 12	·1022					
	***	10. 19	·1027					
18. 16	47. 0	10. 36	·1024					
18. 35	46. 0	10. 36	·1026					
	***	11. 4	·1017					
20. 6	46. 10	11. 15	·1020					
20. 30	48. 0	11. 37	·1016					
	***	11. 45	·1020					
21. 45	45. 5	12. 1	·1012					
22. 44	44. 55	13. 10	·1023					
23. 59	48. 40	15. 0	·1023					
		15. 42	·1031					
		15. 55	·1024					
		18. 15	·1033					
		18. 40	·1039					
		19. 0	·1038					
		19. 40	·1027					
			***					
		21. 0	·1022					
		21. 16	·1013					
			***					
		23. 15	·1016					
		23. 59	·1015					
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 0	21. 48. 55	0. 0	·1015	0. 30	·01008	9. 43	57 ·5	58 ·5
	***	0. 45	·1016	2. 50:	·01004	21. 40	52 ·2	54 ·0
1. 15	52. 10	1. 0	·1014	5. 15	·00858			
4. 10	47. 35	1. 12	·1020	7. 35	·00737			
6. 25	47. 0	1. 15	·1017	9. 10	·00687			
7. 44	44. 0	4. 15	·1028	11. 25	·00677			
8. 10	45. 10	5. 10	·1024	14. 15	·00768			
8. 45	44. 15	5. 44	·1028	15. 30	·00848			
	***	6. 30	·1024	17. 12	·01017			
10. 21	46. 0	7. 0	·1026	21. 47	·01020			
10. 35	43. 30	7. 40	·1023		(†)			
11. 1	44. 55	8. 40	·1028					
11. 16	44. 35	8. 59	·1031					
11. 32	46. 25	9. 10	·1028					
12. 15	46. 0	9. 20	·1033					
12. 30	47. 10	9. 40	·1035					
12. 57	45. 30	10. 27	·1030					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 14		Oct. 14						
h m	′ ″	h m		h m		h m		
13. 44	21. 46. 0	10. 45	·1038					
14. 25:	48. 40	11. 20	·1030					
	***	11. 34	·1033					
15. 36	44. 55	11. 55	·1031					
17. 0	49. 0	13. 0	·1027					
17. 36	48. 40	13. 20	·1026					
18. 13	50. 50	14. 28	·1027					
	***	14. 35	·1030					
21. 47	44. 15	16. 2	·1030					
	(†)	16. 25	·1026					
		16. 37	·1028					
		17. 3	·1027					
		18. 0	·1035					
		18. 17	·1032					
		18. 30	·1035					
		18. 35	·1032					
		18. 42	·1026					
		19. 0	·1037					
		19. 58	·1038					
		20. 26	·1036					
		20. 51	·1028					
		21. 12	·1034					
		21. 57	·1026					
			(†)					
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 35	21. 51. 10	0. 40	·1020	0. 30	·01017	1. 40	55 ·0	56 ·0
2. 20	50. 35		***	2. 20:	·00847	3. 40	58 ·5	59 ·0
5. 24	46. 25	4. 14	·1018	4. 18	·00380	9. 40	60 ·0	61 ·0
7. 40	45. 0	5. 48	·1018	5. 52	·00408	21. 40	53 ·5	55 ·0
9. 3	45. 30	6. 4	·1020	11. 15	·00308			
9. 29:	42. 30	9. 50	·1020	14. 30	·00407			
9. 52	45. 0	10. 1	·1028	16. 10	·00566			
10. 18	44. 0	10. 38	·1020	17. 48	·00773			
11. 0	47. 5	10. 52	·1019	20. 10	·01103			
11. 30	44. 40	11. 2	·1027	21. 35	·01065			
12. 16	46. 35	12. 10	·1020	23. 8	·01055			
	***	12. 45	·1026	23. 47	·01067			
13. 16	44. 25	14. 10	·1020					
		15. 5	·1020					
14. 50	47. 0	15. 40	·1024					
15. 36	46. 20	16. 28	·1023					
	***	16. 48	·1028					
16. 22	48. 0	18. 30	·1030					
17. 0	47. 20	19. 5	·1033					
18. 39	49. 15	20. 35	·1032					
19. 0	47. 50	20. 55	·1028					
	***	21. 44	·1028					
21. 0	45. 0	22. 32	·1014					
	***	23. 30	·1014					
22. 16	47. 25	23. 42	·1015					
22. 55	45. 15							
23. 59	48. 30							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 0	21. 48. 30	0. 0	·1017	0. 8	·01064	1. 40	55 ·5	56 ·0
1. 38	52. 0	1. 15	·1018	2. 21:	·00907	3. 40	58 ·2	58 ·5
2. 32	52. 0	2. 30	·1018	4. 55	·00364	9. 40	60 ·0	61 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
h m	° ′ ″	h m		h m		h m		
4. 39	21. 48. 20	3. 15	·1016	5. 45	·00408	21. 40	58 ·5	59 ·0
	***	3. 56	·1021	7. 35	·00398			
6. 50	47. 35	5. 45	·1016	9. 0	·00365			
7. 11	48. 35	6. 20	·1021	11. 8	·00358			
7. 44	41. 0	6. 32	·1018	13. 45	·00343			
7. 56	44. 40	7. 0	·1024	18. 50	·00464			
	***	7. 32	·1016	21. 21	·00464			
8. 31	40. 35	8. 1	·1017	23. 59	·00372			
		8. 11	·1016					
9. 10	36. 0	8. 30	·1024					
	***	9. 3	·1018					
9. 49	36. 15		***					
10. 30	37. 30	10. 0	·1004					
10. 49:	42. 35	10. 50	·1002					
11. 27	41. 15	11. 5	·1013					
12. 8	45. 0	12. 32	·1020					
13. 22	44. 35	13. 15	·1018					
	***	15. 12	·1023					
15. 45	47. 0	15. 30	·1020					
16. 1	45. 30	17. 3	·1027					
	***		***					
19. 30	45. 5	18. 8	·1028					
	***	20. 40	·1026					
19. 59	44. 15	23. 28	·1005					
21. 45	44. 15							
23. 15	46. 40							
	(†)							
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 30	21. 50. 30	0. 45	·1008	0. 30	·00378	1. 40	60 ·0	61 ·0
2. 8	51. 45	2. 45	·1010	0. 48	·00367	3. 40	64 ·5	65 ·0
5. 27	45. 10	3. 25	·1008	3. 0	·00536	9. 40	65 ·0	66 ·0
6. 44	45. 30	4. 28	·1012	4. 20	·00597	21. 40	59 ·5	61 ·0
7. 1	42. 50	4. 46	·1010	4. 45	·00583			
7. 44:	45. 15	6. 35	·1013	4. 56	·00618			
8. 6	44. 0	7. 3	·1008	5. 3	·00584			
8. 46	44. 30	7. 25	·1014	8. 15	·00527			
10. 8	45. 30	7. 46	·1015	11. 15	·00518			
11. 20	43. 0	8. 55	·1014	14. 15	·00617			
12. 8	44. 0	9. 18	·1016	17. 45	·00866			
12. 45	44. 0	10. 17	·1015	22. 10	·01227			
13. 30	46. 0	10. 30	·1020	23. 55	·01190			
	***	11. 16	·1012					
16. 28	45. 35	11. 42	·1017					
18. 55	46. 0	12. 15	·1016					
20. 55	44. 15	12. 46	·1020					
22. 20	44. 0	13. 12	·1017					
23. 55	48. 30	13. 27	·1023					
		15. 20	·1020					
		16. 17	·1024					
		16. 21	·1022					
		16. 33	·1023					
		16. 55	·1028					
		18. 0	·1032					
			***					
		18. 45	·1036					
		19. 50	·1030					
		20. 6	·1034					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Oct. 17 h m		h m		h m	°	°
		21. 5	·1025					
		21. 38	·1024					
		21. 48	·1026					
		22. 28	·1016					
		23. 59	·1014					
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 15	21. 50. 15	0. 0	·1014	0. 0	·01181	1. 40	60 ·0	61 ·0
	***	0. 10	·1022	2. 30	·01192	3. 40	62 ·0	63 ·0
1. 5	52. 0		***	5. 30	·00958	9. 40	61 ·5	62 ·0
1. 18	54. 0	0. 45	·1018	6. 0	·00953	21. 40	57 ·0	58 ·0
1. 46	55. 15	1. 0	·1022	7. 0	·00820			
2. 3	53. 0		***		***			
2. 39	54. 5	1. 30	·1021	9. 15	·00798			
	***	1. 45	·1014	10. 0	·00730			
3. 42	49. 20	1. 47	·1016	10. 26	·00578			
	***	2. 3	·1007	10. 35	·00605			
5. 2	54. 0	2. 40	·1015	10. 45	·00565			
	***	2. 53	·1006	11. 1	·00565			
5. 45	47. 55		***	11. 26	·00693			
6. 0	49. 20	3. 32	·1013	14. 0	·00865			
6. 43	41. 25	3. 43	·1007	14. 25	·00936			
7. 0	48. 25	4. 10	·1021	17. 30	·01220			
7. 14	57. 20	4. 25	·1015	21. 0	·01218			
7. 40	44. 0	4. 50	·1010	23. 50	·01188			
8. 6	48. 30	5. 15	·0980					
8. 29	42. 0	5. 35	·0981					
8. 40	45. 0	6. 0	·0984					
9. 0	36. 50	6. 6	·0986					
9. 13	37. 30	6. 14	·0968					
9. 57	33. 50	6. 28	·0988					
10. 5	36. 30	6. 44	·1002					
10. 11	35. 0	6. 59	·0988					
10. 15	37. 30	7. 3	·0994					
10. 30	30. 20	7. 30	·0956					
10. 50	42. 5	7. 36	·0957					
11. 7	32. 50	7. 57	·0972					
11. 21	31. 0	8. 15	·0962					
12. 15	41. 30	8. 18	·0969					
	***	8. 40	·0975					
12. 47	39. 30	8. 59	·0959					
13. 0	41. 10	9. 14	·0967					
13. 30	33. 25	9. 29	·0968					
13. 49	33. 55	10. 0	·0978					
14. 31	45. 30	10. 18	·1030					
	***	10. 30	·1005					
16. 25	49. 0	10. 38	·1018					
16. 32	47. 50	11. 10	·0962					
17. 4	48. 15	11. 15	·0978					
17. 30	49. 50	11. 25	·0978					
18. 15	48. 0	11. 43	·0997					
18. 34	49. 55	11. 52	·0992					
20. 0	46. 0	12. 17	·0992					
20. 15	47. 55	12. 37	·1011					
21. 30	45. 0	12. 45	·1016					
23. 35	48. 30	13. 12	·1010					
23. 59	50. 30	13. 22	·1014					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Oct. 18 h m		h m		h m	°	°
		13. 40	·1003					
		14. 28	·1009					
		14. 40	·1006					
		15. 25	·1006					
		15. 40	·1003					
		15. 56	·1008					
			***					
		16. 31	·1002					
		17. 4	·1006					
		17. 27	·1014					
		17. 34	·1011					
		18. 6	·1021					
		18. 45	·1016					
		19. 0	·1018					
		19. 58	·1018					
		21. 25	·1006					
		22. 0	·1004					
		22. 23	·0995					
		23. 59	·1006					
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
0. 0	21. 50. 30	0. 0	·1007	0. 15	·01188	1. 40	59 ·5	61 ·0
2. 2	50. 40	1. 3	·0997	2. 30	·00983	3. 40	62 ·0	63 ·0
4. 50	47. 5	3. 2	·1008	4. 33	·00506	9. 40	63 ·0	64 ·5
5. 45	46. 45	3. 28	·1007	4. 50	·00523	21. 40	57 ·0	58 ·0
6. 15	44. 0	4. 28	·1010	7. 35	·00482			
		5. 27	·1006	10. 10	·00467			
7. 31	46. 0	6. 3	·0994	13. 15	·00662			
8. 0	43. 30	6. 45	·1004	15. 52	·00882			
8. 24	44. 15	7. 0	·1003	18. 45	·01159			
9. 0	44. 30	7. 15	·1008	19. 30	·01133			
9. 40	41. 0	7. 50	·1005	23. 59	·01172			
9. 45	42. 0	9. 10	·1014					
9. 57	41. 0	9. 17	·1010					
10. 17	44. 0	9. 43	·1023					
10. 44	45. 0	9. 58	·1014					
11. 15	42. 0	10. 30	·1010					
12. 10	40. 55	11. 0	·1015					
12. 40	46. 0	11. 15	·1012					
13. 30	42. 35	12. 35	·1010					
14. 0	44. 30	12. 56	·1018					
14. 44	44. 20	13. 15	·1014					
15. 21	47. 30	14. 0	·1016					
15. 46	47. 0	15. 0	·1015					
16. 6	48. 5	15. 40	·1020					
17. 1	52. 10	16. 0	·1019					
17. 15	49. 0	16. 30	·1018					
17. 30	50. 0	17. 0	·1026					
17. 39	48. 15	17. 10	·1018					
18. 0	48. 30	17. 16	·1031					
18. 31	46. 30		***					
19. 30	50. 0	17. 30	·1030					
20. 50	45. 0	17. 45	·1037					
21. 16	44. 5	18. 28	·1031					
22. 21	46. 10	18. 43	·1026					
22. 55	48. 45	19. 27	·1026					
23. 44	48. 50	19. 32	·1021					
23. 59	49. 35	20. 0	·1021					
		22. 46	·1015					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 19 h m		h m		h m	°	°
		23. 3	·1010					
		23. 30	·1004					
		23. 59	·1006					
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 0	21. 49. 40	0. 0	·1006	0. 25	·01133	1. 40	59 · 0	61 · 0
0. 44	53. 0	0. 30	·1010	1. 6	·01073	3. 40	62 · 5	63 · 0
1. 44	51. 40	1. 43	·1004	3. 38	·00528	9. 40	61 · 0	62 · 0
2. 15	54. 15		(†)	4. 15	·00587	23. 0	60 · 5	61 · 5
3. 28	49. 10	3. 37	·1004	7. 13	·00573			
5. 0	45. 30	3. 45	·1002		·00723			
5. 30	46. 30	4. 10	·1008	8. 45	·00633			
6. 0	45. 30	4. 26	·1006	9. 15	·00597			
6. 40	32. 55	4. 30	·1007	12. 0	·00633			
7. 31	45. 5	5. 6	·1010	13. 15	·00607			
8. 14	45. 10	5. 55	·0999	13. 30	·00643			
8. 43	39. 0	6. 5	·0989	14. 15	·00662			
9. 0	43. 0	6. 56	·1000	18. 21	·00927			
9. 19	43. 35	7. 15	·0996	20. 0:	·01003			
9. 52	40. 20	7. 30	·1005	23. 27	·01015			
10. 16	43. 25	7. 44	·0999					
10. 30	42. 25	8. 15	·1010					
10. 46	44. 40	8. 25	·1018					
11. 3	43. 50	8. 30	·1016					
11. 29	44. 20	8. 45	·1034					
11. 51	43. 0	9. 4	·1019					
12. 8	48. 0	9. 44	·1010					
12. 26	45. 0	9. 59	·1015					
12. 46	46. 10	10. 30	·1007					
13. 15	40. 0		***					
13. 41	50. 40	11. 49	·1007					
14. 16	43. 5	12. 1	·1009					
15. 9	46. 5	12. 42	·1037					
15. 43	43. 45	12. 45	·1040					
16. 44	45. 40	13. 0	·1023					
19. 55	43. 45	13. 6	·1027					
22. 10	44. 30	13. 15	·1019					
23. 3	46. 0	13. 29	·1040					
23. 59	49. 25	14. 0	·1020					
		14. 50	·1012					
		15. 8	·1013					
		15. 45	·1022					
		16. 50	·1020					
		19. 19	·1020					
		20. 10	·1017					
		23. 43	·1002					
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 0	21. 49. 30	0. 0	·1000	0. 0	·00978	9. 15	63 · 0	63 · 5
0. 31	51. 0	0. 50	·0998	5. 20	·00535	21. 40	61 · 5	63 · 5
1. 8	50. 0	1. 55	·1012	10. 30	·00547			
1. 39	51. 0	2. 10	·1011	12. 32	·00538			
2. 35	50. 30	3. 27	·1012	16. 50	·00519			
5. 2	46. 0	4. 15	·1010	20. 0	·00557			
6. 35	46. 0	4. 45	·1012	22. 45	·00658			
7. 2	43. 50	5. 11	·1015	23. 59	·00719			
7. 16	44. 45	6. 55	·1014					
7. 44	41. 15	7. 15	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 21		Oct. 21						
h m	° ′ ″	h m		h m		h m	°	°
8. 22	21. 45. 25	7. 30	·1012					
10. 0	44. 35	7. 50	·1018					
17. 45	46. 0	8. 3	·1016					
21. 14	44. 30	8. 15	·1018					
22. 15	44. 25	8. 50	·1014					
23. 59	49. 25	9. 33	·1016					
		11. 42	·1017					
		12. 38	·1016					
		19. 15	·1024					
		21. 33	·1019					
		23. 0	·1018					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 0	21. 49. 30	1. 25	·1008	1. 15	·00733	1. 40	62 · 0	63 · 5
1. 10	53. 5		***	1. 50:	·00713	3. 40	64 · 0	65 · 0
2. 20	52. 30	2. 47	·1007	3. 44	·00563	9. 40	65 · 0	66 · 0
3. 15	49. 15		***		·00598	21. 40	61 · 0	62 · 0
5. 0	46. 0	3. 47	·1004	6. 34	·00621			
9. 44	45. 35	4. 55	·1009	6. 40	·00697			
9. 59	43. 35	9. 40	·1014	8. 10	·00597			
10. 41	45. 40	9. 59	·1019	10. 30	·00573			
11. 42	45. 0	10. 16	·1014	17. 0	·00833			
12. 20	46. 30	11. 0	·1017	20. 30	·01118			
15. 10	47. 30	11. 45	·1015	22. 0	·01220			
15. 46	46. 15	12. 40	·1014	23. 0	·01308			
19. 15	45. 25	13. 27	·1017	23. 59	·01317			
22. 0	43. 35	14. 41	·1016					
23. 59	49. 5	19. 28	·1024					
		20. 30	·1022					
		23. 16	·1009					
		23. 59	·1010					
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 0	21. 49. 20	0. 0	·1010	0. 5	·01300	1. 40	62 · 0	63 · 0
0. 22	49. 30	1. 28	·1012	1. 45	·01268	3. 40	63 · 5	64 · 5
1. 30	52. 0	1. 30	·1014	3. 30	·01120	9. 40	65 · 0	66 · 5
2. 0	50. 10	1. 52	·1011	5. 30	·00895	21. 40	57 · 0	58 · 0
2. 30	51. 20	2. 39	·1020	8. 5	·00673			
5. 40	48. 0	2. 58	·1017	8. 50	·00647			
6. 16	43. 40	3. 15	·1014	10. 15	·00576			
	***	3. 55	·1011	11. 15	·00520			
7. 44	46. 0	4. 0	·1015	13. 30	·00556			
8. 30	43. 20	4. 20	·1008	16. 35	·00766			
8. 45	44. 30	5. 36	·1010	18. 22	·01023			
9. 1	41. 35	6. 25	·1006	20. 5	·01273			
9. 22	34. 30	7. 15	·1014	22. 30	·01198			
9. 44	38. 30	7. 30	·1008	23. 30	·01207			
10. 9	33. 30	7. 40	·1011					
10. 28	37. 25	7. 50	·1008					
10. 46	37. 0	8. 22	·1006					
11. 0	38. 35	8. 58	·1017					
11. 30	36. 0	9. 5	·1015					
11. 59	34. 30	9. 25	·1036					
	***	9. 45	·1009					
12. 58	43. 25	10. 10	·1002					
13. 15	38. 25	10. 25	·1011					
13. 39	37. 35	10. 33	·1008					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 23		Oct. 23						
h m	° ′ ″	h m		h m		h m		
14. 14	21. 44. 0	11. 6	·1014					
	***	11. 29	·1002					
15. 30	48. 30	12. 7	·0993					
	***	13. 10	·1000					
16. 31	47. 30	13. 13	·1004					
	***	13. 37	·0997					
18. 8	49. 50	14. 30	·1002					
	***	14. 44	·1011					
19. 29	47. 35	14. 55	·1010					
	***	16. 30	·1014					
19. 46	49. 30	16. 47	·1017					
	***	16. 55	·1012					
20. 40	45. 30	17. 30	·1018					
	***	18. 15	·1012					
21. 30	46. 30	19. 0	·1015					
22. 15:	43. 50		***					
	***	19. 48	·1026					
23. 5	45. 0	20. 35	·1010					
23. 15	44. 40	20. 55	·1018					
23. 25	46. 30	22. 27	·1008					
23. 37	45. 50	23. 2	·1011					
23. 45	47. 40	23. 15	·1008					
23. 59	48. 0	23. 25	·1013					
		23. 59	·1007					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 0	21. 48. 0	0. 0	·1007	0. 55	·01172	1. 40	58 ·0	59 ·0
	***		***	2. 0	·01168	3. 40	59 ·5	61 ·0
1. 31	51. 0	1. 25	·1012	4. 16	·00935	9. 40	59 ·0	59 ·0
3. 26	49. 10		***	7. 30:	·00603	21. 40	52 ·0	53 ·0
4. 32	46. 0	3. 57	·1000	13. 53	·01132			
7. 40	45. 25	5. 4	·1012	19. 5	·01113			
	***	7. 10	·1015	23. 59	·01095			
9. 25	46. 30	8. 13	·1023					
	***	10. 2	·1020					
10. 17	44. 30	10. 13	·1030					
10. 30	46. 30	10. 40	·1034					
	***	11. 3	·1020					
13. 54	48. 10	11. 32	·1023					
14. 17	47. 10	11. 50	·1031					
14. 46	48. 30	13. 25	·1026					
15. 25	47. 5	15. 13	·1030					
16. 14	48. 15	15. 45	·1026					
	***	16. 55	·1032					
19. 10	46. 30		***					
	***	18. 12	·1035					
20. 12	44. 0	19. 40	·1031					
22. 0	44. 5	20. 14	·1033					
23. 59	50. 30	22. 58	·1016					
		23. 36	·1018					
		23. 42	·1017					
		23. 47	·1020					
		23. 59	·1016					
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
0. 0	21. 50. 30	0. 0	·1016	0. 45	·01092	1. 40	54 ·5	55 ·5
1. 1	53. 10	0. 44	·1022	2. 3	·01037	3. 40	55 ·5	56 ·0
2. 16	52. 15	1. 0	·1024	3. 30	·00858	9. 40	58 ·0	59 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
h m	° ′ ″	h m		h m		h m		
4. 26	21. 48. 0	1. 10	·1022	7. 1	·00383	21. 40	58 ·0	59 ·0
6. 52	45. 0	2. 15	·1024	14. 22	·00365			
7. 29	45. 35	2. 20	·1026	17. 30	·00372			
7. 45	41. 0	3. 4	·1025	23. 59	·00378			
8. 36	44. 40	3. 15	·1023					
9. 50	44. 30	4. 3	·1026					
14. 25	47. 0	4. 45	·1023					
15. 14	45. 35	5. 39	·1027					
16. 13	47. 0	5. 55	·1026					
16. 30	45. 35		***					
16. 54	46. 0	7. 25	·1029					
17. 14	44. 35	7. 44	·1024					
19. 0	44. 20	8. 0	·1038					
21. 32	43. 30	8. 42	·1026					
23. 59	50. 35	10. 30	·1030					
		10. 55	·1028					
		13. 32	·1026					
		14. 15	·1030					
		19. 30	·1038					
		20. 34	·1037					
		21. 32	·1033					
		23. 10	·1019					
		23. 20	·1020					
		23. 44	·1016					
		23. 47	·1020					
		23. 59	·1022					
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 0	21. 50. 40	0. 0	·1022	0. 35	·00348	1. 40	59 ·0	60 ·0
2. 0	51. 0	0. 31	·1019	2. 34	·00387	3. 40	60 ·0	61 ·0
4. 15	47. 30	1. 10	·1020		·00657	9. 40	57 ·0	58 ·0
6. 0	45. 0	1. 28	·1024	3. 30	·00600	21. 40	49 ·0	53 ·0
8. 0	47. 0	2. 18	·1023	5. 45:	·00460			
	***	4. 12	·1024	8. 5:	·00442			
8. 43	45. 35	7. 0	·1030	9. 40	·00553			
	***	8. 50	·1024	11. 50	·00809			
9. 15	47. 0		***	14. 18	·01145			
	***	10. 53	·1028	15. 47	·01138			
10. 14	45. 35	11. 16	·1028	19. 5	·01118			
10. 45	47. 10	11. 32	·1032	20. 40	·01113			
	***	12. 0	·1031	22. 25	·01068			
12. 14	48. 0	12. 15	·1038	23. 59	·01098			
12. 36	46. 0	12. 40	·1033					
	***	13. 12	·1032					
13. 24	48. 35	13. 48	·1037					
13. 46	46. 35	15. 0	·1056					
14. 44	46. 0	18. 0	·1045					
16. 55	47. 0	19. 50	·1044					
20. 30	46. 0	20. 20	·1041					
21. 52	44. 0	21. 10	·1037					
22. 15	47. 50	23. 18	·1022					
	***	23. 59	·1026					
23. 54	52. 30							
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 0	21. 52. 0	0. 0	·1027	1. 0	·01095	1. 40	53 ·0	54 ·0
	***	0. 48	·1027	2. 20	·00993	3. 40	55 ·0	57 ·0
1. 4	50. 35	1. 0	·1026	3. 0:	·00895	9. 40	55 ·0	56 ·0
2. 6	49. 25		***	5. 21	·00362	23. 0	52 ·0	53 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 27		Oct. 27		Oct. 27				
h. m.	° ′ ″	h. m.		h. m.		h. m.	°	°
3. 53	21. 49. 20	1. 56	·10333	6. 2	·00378			
		2. 53	·10255	7. 35	·00358			
4. 30	50. 20			8. 20	·00[illegible]			
5. 21	47. 40	5. 10	·10[illegible]12	8. 45	·00368			
5. 47	49. 40	5. 44	·10114	9. 15	·00[illegible]2			
	***	6. 0	·10[illegible]10	12. 5	·00483			
6. 50	48. 0			17. 59	·00947			
7. 40	40. 35	6. 43	·10[illegible]10	21. 0	·01065			
8. 0	42. 30	6. 47	·1017	23. 25	·01038			
8. 20	42. 40	7. 27	·1002					
8. 31	40. 35	7. 44	·1006					
8. 46	44. 0	8. 0	·10[illegible]2					
9. 8	37. 0	8. 27	·1010					
9. 28	33. 35	8. 44	·1026					
9. 48	41. 0	8. 56	·1022					
10. 29	45. 5	9. 5	·1040					
11. 29	44. 35	9. 27	·1027					
11. 38	46. 30	9. 35	·1031					
11. 58	44. 35	9. 45	·1024					
	***	10. 25	·1022					
13. 0	47. 50	11. 0	·1030					
	***	11. 27	·1030					
15. 0	48. 0	11. 35	·1035					
17. 50	45. 35	12. 10	·1030					
19. 46	44. 45	18. 12	·1042					
21. 24	43. 30	19. 46	·1042					
	***	21. 5	·1037					
23. 8	49. 30	23. 10	·1014					
	***	23. 27	·1016					
23. 59	51. 0	23. 31	·1014					
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 0	21. 51. 5	0. 0	·1018	0. 0	·01008	9. 10	56	·558 ·0
1. 15:	51. 40	0. 52	·1017	1. 15	·00892	21. 40	52	·053 ·0
3. 40:	46. 50	2. 40	·1026	5. 18	·00358			
5. 0	45. 0	4. 55	·1030	8. 0:	·00380			
7. 20	46. 35	5. 43	·1028	10. 25	·00353			
8. 25	44. 0	6. 15	·1021	11. 20	·00322			
9. 2	44. 50	6. 46	·1021	15. 30	·00497			
9. 24	43. 20	7. 32	·1015	18. 45	·00780			
9. 56	36. 15	8. 30	·1020	21. 39	·00857			
10. 14	36. 20	9. 57	·1021	22. 55	·00883			
10. 36	40. 20	10. 15	·1026	23. 59	·00874			
10. 52	40. 25	10. 30	·1037					
11. 45	45. 5	10. 48	·1031					
14. 22	46. 25	12. 0	·1032					
15. 6	49. 0	12. 46	·1034					
15. 42	46. 50	14. 25	·1037					
18. 0	45. 30	14. 45	·1076					
19. 44	43. 50	15. 59	·1042					
21. 30	43. 55	17. 45	·1040					
22. 37	45. 25	19. 5	·1044					
23. 59	50. 30	20. 0	·1042					
		20. 31	·1036					
		20. 50	·1031					
		22. 57	·1024					
		23. 59	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
h. m.	° ′ ″	h. m.		h. m.		h. m.	°	°
0. 0	21. 50. 35	0. 0	·1019	1. 1	·00847	1. 40	54	·056 ·0
1. 0	52. 35	0. 50	·1026	2. 29	·00740	3. 40	55	·057 ·0
2. 26	50. 40	2. 15	·1032	4. 46	·00362	9. 40	57	·058 ·0
4. 45	51. 5	2. 43	·1027		·00417	21. 40	55	·056 ·0
5. 15	49. 30			8. 45	·00407			
5. 35	50. 25	4. 17	·1029	12. 25	·00337			
6. 35	48. 20	4. 40	·1023	14. 15	·00338			
7. 15	43. 30	5. 15	·1023	21. 30	·00367			
7. 44	45. 55	5. 26	·1028	23. 50	·00314			
8. 6	44. 50	5. 35	·1026					
8. 30	45. 30	5. 45	·1028					
8. 45	44. 0	6. 12	·1024					
10. 14	43. 50	6. 37	·1028					
11. 1	46. 0	6. 55	·1023					
11. 29:	44. 25	7. 30	·1034					
12. 2	46. 25	7. 47	·1030					
12. 22	45. 30	8. 11	·1030					
14. 0	45. 30	8. 20	·1033					
14. 40	47. 5	8. 40	·1032					
15. 10	46. 50	9. 12	·1032					
16. 24	48. 25	9. 59	·1036					
16. 55	46. 45	10. 8	·1034					
20. 0	44. 10	10. 47	·1034					
22. 4	46. 0	11. 0	·1036					
23. 59	51. 30	11. 10	·1034					
		11. 43	·1031					
		11. 53	·1030					
		12. 1	·1040					
		12. 45	·1034					
		13. 0	·1037					
		14. 0	·1034					
		15. 31	·1034					
		16. 53	·1040					
		18. 57	·1042					
		20. 15	·1038					
		21. 30	·1029					
		23. 25	·1022					
		23. 59	·1016					
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
0. 0	21. 51. 35	0. 0	·1016	0. 45	·00320	1. 40	57	·058 ·0
0. 35	53. 25	0. 47	·1036	2. 16	·00344	3. 40	58	·059 ·0
1. 44	53. 25	1. 3	·1032		·00470	9. 40	58	·060 ·0
6. 15	47. 30	3. 15	·1032	2. 50	·00412	21. 40	56	·058 ·0
6. 31	48. 20	7. 56	·1037	6. 0	·00460			
11. 3	45. 5	11. 3	·1037	8. 0	·00437			
11. 38	45. 10	11. 39	·1046	14. 34	·00403			
11. 59	43. 25	11. 57	·1040	18. 30	·00510			
12. 14	45. 0	12. 12	·1044	23. 40	·00684			
13. 0	42. 0	12. 35	·1040					
14. 0	45. 40	13. 43	·1034					
14. 58	46. 30	17. 0	·1044					
19. 13	45. 0	19. 55	·1043					
20. 8	44. 40	21. 55	·1036					
22. 30	46. 55	22. 30	·1030					
23. 59	49. 0	23. 45	·1034					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 49. 5	0. 0	·1028	0. 0	·00687	1. 40	57 ·0	58 ·0
1. 50:	51. 0	0. 32	·1030	2. 45	·00680	3. 40	58 ·0	59 ·0
5. 30	44. 35	0. 50	·1026	5. 0	·00543	9. 40	57 ·0	58 ·0
6. 34	46. 30	2. 30	·1024	8. 0:	·00477	21. 40	49 ·0	51 ·0
6. 46	45. 30	2. 48	·1026	14. 38	·00884			
8. 0	45. 5	3. 40	·1024	16. 57	·01143			
10. 8	46. 15	4. 0	·1024	19. 17	·01098			
	***	4. 30	·1020	19. 20	·01040			
16. 0	47. 40	5. 20	·1018	21. 50	{·01104			
16. 46	46. 0	5. 48	·1024		{·01065			
17. 25	49. 40	6. 15	·1023	22. 20	·01182			
18. 14	47. 0	7. 40	·1027		(†)			
	***	8. 30	·1034					
21. 14	44. 35	9. 30	·1036					
21. 46	44. 35	17. 17	·1043					
22. 14	43. 15	18. 15	·1049					
23. 8	48. 30	18. 36	·1047					
23. 59	50. 30	20. 15	·1048					
		21. 33	·1040					
		23. 59	·1040					
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
1. 40	21. 51. 2*	1. 40	·1032*	0. 45	·01120	1. 40	50 ·0	51 ·5
3. 40	48. 37*	3. 40	·1033*	1. 30	·01143	3. 40	51 ·0	52 ·0
9. 40	45. 12*	9. 40	·1043*	2. 15	·01128	9. 40	51 ·0	53 ·0
21. 40	44. 55*	21. 40	·1047*	4. 20	·00971	21. 40	43 ·5	44 ·5
				6. 0	·00813			
				8. 45:	·00667			
				11. 30	·00724			
				15. 20	·01110			
				20. 30	·01172			
				23. 59	·01166			
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
1. 0	21. 50. 15	0. 56	·1043	0. 48	·01187	1. 40	45 ·0	47 ·0
2. 51	50. 0	1. 15	·1044	2. 45	·01097	3. 40	47 ·0	49 ·0
	***	1. 25	·1036	4. 5:	·00983	9. 40	49 ·0	50 ·0
3. 52	52. 20	1. 40	·1042	6. 50:	·00580	21. 40	49 ·0	51 ·0
4. 21	48. 55	3. 0	·1039	7. 48	·00467			
4. 36	51. 0	3. 18	·1025	8. 10	·00463			
6. 27	46. 50	4. 14	·1021	9. 10	·00397			
6. 50	48. 35	4. 30	·1031	15. 11	·00401			
7. 20	44. 0	4. 55	·1026	17. 20	·00395			
7. 51	31. 30	6. 2	·1031	19. 15	·00408			
8. 6	31. 30	6. 18	·1027	21. 45	·00420			
8. 43	39. 15	6. 44	·1031	23. 59	·00438			
9. 39	41. 40	6. 59	·1025					
10. 0	41. 0	7. 23	·1025					
11. 53	44. 0	7. 43	·1014					
	***	8. 17	·1035					
13. 30	44. 0	8. 30	·1028					
16. 2	44. 0	8. 56	·1028					
17. 10	46. 0	9. 49	·1047					
17. 37	44. 50	10. 9	·1047					
18. 5	46. 20	10. 32	·1043					
18. 43	44. 25	11. 38	·1042					
21. 59	43. 35	11. 45	·1044					
23. 59	47. 5	12. 2	·1041					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Nov. 2 h m		h m		h m	°	°
		12. 34	·1043					
		16. 42	·1042					
		17. 54	·1044					
		18. 28:	·1048					
		18. 49	·1042					
			***					
		19. 45	·1046					
		20. 30	·1042					
		21. 15	·1033					
		23. 59	·1026					
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 0	21. 47. 10	0. 0	·1026	1. 0	·00412	1. 40	50 ·5	51 ·5
2. 10	49. 25	0. 48	·1004	2. 21	{·00397	3. 40	51 ·5	52 ·0
3. 40	47. 20	1. 50	·1003		{·00485	9. 40	51 ·0	52 ·5
7. 35	44. 25	2. 10	·1008	4. 1	·00473	23. 22	49 ·8	51 ·0
7. 53	43. 35	2. 29	·1006	5. 30	·00457			
8. 9:	41. 35	3. 0	·1009	7. 0	·00447			
8. 40	43. 40	3. 44	·1007	12. 0	·00478			
8. 59	42. 35	4. 7	·1012	16. 30	·00698			
9. 30	44. 25	4. 19	·1008	19. 8	·00887			
12. 1	45. 0	4. 43	·1008	22. 0	·01118			
12. 15	47. 0	4. 54	·1011	23. 59	·01178			
12. 34	45. 0	5. 6	·1012					
12. 56	44. 35	5. 15	·1010					
13. 10	45. 35	6. 23	·1015					
13. 24	45. 0	7. 32	·1018					
15. 30	45. 10	7. 45	·1016					
16. 43	46. 0	8. 9	·1015					
17. 14	44. 40	8. 30	·1018					
18. 17	46. 50	8. 55	·1022					
21. 16	43. 15	9. 19	·1018					
23. 59	47. 30	11. 18	·1016					
		11. 32	·1018					
		11. 55	·1017					
		12. 16	·1022					
		12. 32	·1019					
			***					
		13 33	·1022					
		17. 30	·1029					
		17. 48	·1023					
		18. 3	·1026					
		18. 15	·1025					
		19. 0	·1034					
		20. 30	·1030					
		23. 59	·1014					
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 0	21. 47. 30	0. 0	·1014	0. 45	·01203	11. 20	49 ·0	50 ·0
1. 21	47. 10	0. 30	·1006	2. 5	·01210	21. 40	47 ·0	48 ·5
2. 0	48. 50	1. 15	·1007	3. 36:	·01102			
6. 46	44. 45	2. 10	·1011	6. 0	·00816			
7. 27	41. 35	5. 5	·1017	9. 0	·00508			
7. 59	44. 25	5. 25	·1017	10. 30	·00397			
10. 21	44. 5	5. 55	·1015	10. 40	·00425			
10. 46	42. 30		***	17. 0	·00418			
11. 16	43. 35	7. 45	·1019	19. 45	·00546			
11. 45	43. 0	9. 26	·1019	22. 0	·00718			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

November 1. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 4		Nov. 4		Nov. 4				
h m	° ′ ″	h m		h m		h m	°	°
11. 59	21. 44. 0	10. 45	·1018	23. 20	·00920			
12. 15	43. 15	11. 5	·1012	23. 59	·00985			
12. 30	43. 45	12. 55	·1015					
13. 2	53. 20	13. 45	·1012					
	***	15. 10	·1013					
13. 53	45. 0	17. 25	·1021					
16. 40	44. 35		***					
17. 13	46. 35	19. 30	·1021					
18. 55	45. 35	22. 59	·1003					
20. 17	44. 15	23. 59	·1006					
22. 29	44. 25							
23. 59	48. 35							
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 0	21. 48. 40	0. 0	·1006	1. 30	·01047	1. 40	48 ·0	49 ·0
1. 25	49. 40	0. 7	·1005	3. 15:	·00885	3. 40	50 ·5	51 ·0
1. 45	49. 0	1. 10	·1004	5. 38	·00468	9. 40	51 ·0	52 ·0
5. 0	44. 30	1. 36	·1024	6. 3	·00498	21. 40	49 ·5	51 ·0
6. 40	43. 15	2. 0	·1021	8. 30	·00447			
	***	2. 15	·1022	9. 0:	·00498			
7. 59	45. 40	2. 40	·1019	9. 8	·00480			
8. 28	40. 35	6. 0	·1022	10. 44	·00466			
8. 37	41. 30	6. 43	·1025	11. 6:	·00438			
8. 55	36. 10	6. 56	·1030	18. 24	·00531			
9. 3	39. 30		***	19. 0	·00518			
9. 35	35. 15	7. 55	·1022	20. 17	·00540			
9. 50	36. 35	8. 3	·1017	23. 15	·00523			
10. 20	35. 35	8. 33	·0984	23. 59	·00478			
10. 59	38. 15	8. 43	·0983					
11. 19	30. 40	8. 53	·0988					
11. 40	37. 0	8. 59	1002					
11. 51	36. 5	9. 8	·0992					
12. 3	37. 45	9. 25	·0992					
12. 17	36. 30	9. 50	·0987					
13. 16	44. 15	10. 30	·0990					
13. 27	43. 40	10. 44	·0986					
13. 36	45. 30	10. 48	·0989					
13. 50	44. 0	11. 5	·0975					
	***	11. 31	·1000					
14. 36:	47. 15	11. 43	·0995					
	***	11. 55	·0998					
15. 22	44. 35	12. 0	·0997					
15. 39	44. 40	12. 27	·1012					
15. 51	42. 30	12. 36	·1011					
16. 19	46. 0	12. 43	·1018					
16. 37	43. 25	12. 49	·1014					
	***	13. 13	·1004					
17. 12	46. 0	13. 33	·1017					
	***	13. 47	·1011					
17. 55	45. 35	14. 10	·1014					
18. 4	43. 35	14. 30	·1015					
19. 14	43. 0	14. 40	·1012					
19. 17	42. 0	14. 45	·1015					
19. 29	44. 10	14. 50	·1012					
19. 50	43. 0	15. 8	·1011					
20. 0	41. 5	15. 30	·1016					
20. 14	43. 10	15. 45	·1014					
20. 29	41. 5	16. 10	·1015					
20. 40	44. 0	16. 16	·1020					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 5		Nov. 5						
h m	° ′ ″	h m		h m		h m	°	°
20. 55	21. 42. 30	16. 20	·1013					
	***	16. 25	·1014					
21. 48	43. 0		***					
22. 18	44. 30	18. 31	·1020					
22. 25	47. 25	18. 36	·1017					
22. 50	46. 0	18. 56	·1024					
23. 17	48. 15	19. 5	·1022					
23. 59	47. 40		***					
		20. 0	·1016					
		20. 10	·1023					
		20. 21	·1019					
		20. 41	·1027					
		21. 0	·1022					
		21. 27	·1023					
		22. 18	·1013					
		22. 25	·1019					
		22. 47	·1010					
		23. 15	·1011					
		23. 59	·1008					
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
0. 0	21. 47. 40	0. 0	·1008	1. 0	·00528	1. 40	53 ·2	54 ·5
1. 0	52. 0	0. 55	·1014	2. 46	·00639	3. 40	57 ·0	57 ·0
	(†)	1. 18	·1016		·00706	9. 40	57 ·0	58 ·0
2. 15	50. 0	2. 25	·0997	4. 30	·00697	21. 40	54 ·0	55 ·0
4. 47	47. 35	2. 48	·1002	5. 22	·00691			
5. 45	45. 10	3. 0	·0998	5. 25	·00817			
6. 1	44. 35	3. 13	·0998	6. 15:	·00702			
6. 29	34. 30	3. 40	·0992	8. 45	·00612			
7. 14	45. 30	4. 1	·0999	10. 8	·00596			
8. 33	45. 10	4. 25	·1002	10. 30	·00586			
8. 54	40. 0	4. 40	·0998	11. 45	·00625			
9. 14	42. 15	4. 55	·1006	16. 15	·00752			
9. 22	37. 15	5. 0	·1003	18. 30	·00847			
9. 30	40. 0	5. 14	·1010	22. 30	·00971			
9. 45	35. 0	5. 33	·1007	23. 59	·00965			
9. 55	39. 50	5. 44	·1000					
10. 6	37. 0	5. 59	·1004					
10. 16	40. 15	6. 13	·0996					
10. 45	37. 45	6. 30	·1013					
11. 2	37. 40	6. 37	·1016					
11. 36	34. 30	6. 50	·1009					
12. 6	45. 10	7. 12	·1012					
12. 21	43. 30	7. 28	·1005					
12. 45	43. 0	7. 48	·1008					
12. 57	40. 0	8. 13	·1012					
13. 26	44. 0	8. 45	·0999					
13. 50	43. 30	8. 59	·1012					
14. 5	41. 30	9. 3	·1012					
14. 27	42. 20	9. 17	·1017					
15. 9	41. 0	9. 26	·1028					
15. 44	44. 30	9. 34	·1017					
16. 1	43. 15	9. 40	·1018					
16. 26	44. 35	9. 48	·1030					
17. 0	44. 15	10. 15	·1029					
18. 13	43. 30	10. 32	·1014					
	***	10. 49	·1013					
22. 6	44. 0	11. 0	·1005					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 6		Nov. 6						
h m	° ′ ″	h m		h m		h m	°	°
23. 3	21. 45. 25	11. 35	·1003					
23. 16	48. 30	11. 54	·1015					
	***	12. 10	·1008					
23. 59	46. 35	12. 25	·1013					
		12. 43	·1015					
		12. 55	·1011					
		13. 2	·1016					
		13. 12	·1020					
		13. 20	·1022					
		13. 39	·1016					
		14. 12	·1031					
		14. 40	·1021					
		14. 46	·1023					
		15. 12	·1021					
		15. 27	·1012					
		15. 53	·1011					
		16. 10	·1017					
		16. 18	·1014					
		16. 39	·1011					
		17. 20	·1017					
		17. 42	·1015					
		17. 56	·1020					
			***					
		18. 40	·1017					
			***					
		20. 6	·1020					
			***					
		23. 10	·1016					
		23. 59	·1007					
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 0	21. 46. 35	0. 0	·1007	0. 15	·00957	1. 40	55 ·5	56 ·5
	***	0. 30	·1005	0. 45	·00950	3. 40	56 ·5	57 ·0
1. 0	53. 0	0. 57	·1004	1. 45	·00897	9. 40	56 ·5	57 ·0
	***	1. 5	·0998	3. 20	·00720	21. 40	53 ·0	54 ·0
					·00687			
2. 10	48. 0	1. 17	·1006		***			
3. 15	48. 55	1. 35	·0998					
3. 46	47. 25	1. 42	·1001	5. 0:	·00660			
4. 15	48. 0	2. 17	·0984	6. 1	·00675			
4. 32:	49. 30		***	6. 6	·00776			
5. 20	42. 0	3. 7	·1005	6. 24	·00805			
5. 44	44. 30		***	8. 0	·00750			
6. 15	34. 0	3. 57	·1004	10. 12	·00778			
	***		***	10. 35	·00757			
7. 15	46. 30	4. 28	·1003	18. 45	·01286			
9. 35	44. 5	4. 58	·1003	21. 55	·01382			
9. 55	38. 0	5. 12	·0991	23. 10:	·01337			
10. 15	45. 25	5. 20	·0991	23. 59	·01341			
	***	5. 32	·0983					
11. 25	39. 0	5. 42	·0986					
12. 7	39. 15	6. 0	·0987					
13. 3	44. 45	6. 10	·0998					
13. 37	43. 35	6. 20	·0998					
	***	6. 32	·0978					
14. 0	50. 30	7. 0	·0994					
14. 45	45. 10	7. 30	·0996					
	***	7. 35	·0992					
15. 15	44. 20	8. 12	·1002					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 7		Nov. 7						
h m	° ′ ″	h m		h m		h m	°	°
15. 50	21. 45. 40	8. 40	·1002					
16. 28	43. 25	8. 48	·0998					
17. 0	45. 35	9. 25	·1006					
	***	9. 32	·1004					
21. 10	44. 50	9. 47	·1004					
23. 55	50. 55	10. 6	·1036					
		10. 25	·1017					
		10. 50	·1007					
		11. 8	·1010					
		11. 25	·1007					
		13. 8	·1004					
		13. 35	·1010					
		13. 58	·1004					
		14. 1	·1006					
		14. 18	·0997					
		15. 0	·1010					
		15. 44	·1006					
		17. 2	·1009					
		18. 0	·1015					
			***					
		19. 5	·1013					
		20. 40	·1016					
		22. 54	·1010					
		23. 20	·1014					
		23. 32	·1012					
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 2	21. 49. 50	0. 20	·1011	0. 30	·01357	1. 40	54 ·5	55 ·0
0. 30	51. 0	1. 0	·1008	2. 0	·01348	3. 40	54 ·0	55 ·0
1. 30	49. 10	1. 12	·1009	3. 55	·01278	9. 40	55 ·0	55 ·5
1. 56	51. 0	1. 26	·1008	5. 50	·01105	21. 40	49 ·0	51 ·0
2. 6	49. 40	1. 32	·1011	6. 10	·01116			
2. 45:	50. 40	2. 30	·1000	8. 15	·00943			
	***	3. 0	·0999	8. 27	·00925			
3. 44	46. 35	3. 14	·0990	9. 0	·00903			
5. 30	49. 0	4. 0	·1008	11. 15	·00937			
5. 54	34. 0	4. 25	·1002	13. 10	·00997			
6. 36	44. 50	5. 12	·1006	14. 15	·01085			
8. 37	46. 0		***	18. 10	·01328			
	***	5. 50	·0983		·01295			
10. 9	44. 30	6. 10	·1014	21. 3	·01294			
10. 31	45. 30	6. 30	·1006	23. 15	·01273			
10. 51	42. 0	6. 33	·1009	23. 59	·01287			
11. 25	44. 50	7. 5	·1005					
11. 48	49. 40	7. 16	·1006					
	***	7. 43	·1002					
13. 0	46. 0	8. 1	·1007					
15. 0	48. 0	8. 10	·1022					
	***	8. 22	·1026					
18. 30	46. 30	8. 29	·1032					
18. 50	44. 40	8. 42	·1021					
19. 0	46. 0	9. 11	·1014					
19. 45	45. 0	9. 30	·1008					
20. 0	40. 15	10. 32	·1011					
	***	10. 50	·1017					
20. 30	44. 0	11. 15	·1014					
20. 46	41. 0	11. 28	·1015					
21. 31	42. 45	11. 35	·1019					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 8		Nov. 8						
h m	° ′ ″	h m		h m		h m	°	°
22. 1	21. 46. 0	11. 50	·1019					
22. 45	46. 35	12. 10	·1015					
23. 59	50. 0	12. 29	·1020					
		12. 45	·1021					
		13. 12	·1015					
		14. 5	·1018					
			***					
		15. 0	·1020					
		15. 12	·1017					
		16. 18	·1017					
			***					
		18. 57	·1029					
		19. 9	·1026					
			***					
		22. 35	·1016					
		22. 59	·1007					
		23. 15	·1007					
		23. 35	·0996					
		23. 59	·0998					
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
0. 0	21. 50. 5	0. 0	·0998	0. 15	·01291	1. 40	52 ·0	53 ·5
0. 40	52. 20	0. 50	·0998	2. 15:	·01163	3. 40	55 ·5	57 ·0
1. 7	50. 35	1. 14	·0996	4. 35	·00678	9. 40	58 ·0	59 ·0
1. 24	53. 0	1. 30	·0990	5. 0	·00722	21. 40	54 ·0	55 ·5
1. 50	50. 35	3. 35	·1005	6. 0	·00716			
2. 0	52. 0	3. 59	·0992	6. 15	·00687			
3. 25	49. 15	4. 12	·1016	10. 35	·00638			
3. 34	50. 0	4. 33	·0982	10. 48	·00765			
3. 46	49. 20	4. 45	·0990	12. 30	·00748			
4. 30	37. 30	4. 57	·0990	16. 15	·00807			
	***	5. 7	·0980	18. 45	·00810			
5. 9	46. 55	5. 15	·0986	21. 0	·00867			
5. 29	41. 0	5. 28	·1002	22. 0	·00854			
5. 39	43. 10	5. 50	·1017	23. 47	·00872			
5. 44	42. 0	5. 57	·1015					
5. 47	43. 0	6. 1	·1020					
6. 1	34. 55	6. 18	·0996					
7. 0	45. 35	6. 29	·1008					
	***	6. 44	·0997					
8. 30	46. 0	7. 8	·1005					
9. 14	44. 35	7. 27	·1000					
9. 32	42. 0	8. 0	·1002					
10. 2	43. 40	8. 9	·1004					
10. 26	42. 40	8. 36	·1001					
10. 45	44. 40	9. 3	·1006					
11. 32	44. 25	9. 14	·1005					
11. 46	46. 0	9. 45	·1017					
12. 1	44. 50	10. 11	·1010					
12. 17	48. 0	10. 42	·1011					
12. 39	44. 35	11. 15	·1007					
13. 25	46. 10	11. 30	·1007					
	***	11. 45	·1008					
16. 0	45. 10	11. 55	·1011					
18. 0	48. 0	12. 0	·1009					
	(†)	12. 15	·1024					
21. 40	46. 1*	12. 30	·1012					
		12 50	·1006					
		14. 16	·1012					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Nov. 9						
h m	° ′ ″	h m		h m		h m	°	°
		15. 26	·1011					
		19. 15	·1014					
			***					
		20. 50	·1010					
		21. 3	·1013					
		21. 53	·1003					
			***					
		22. 32	·1006					
			(†)					
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
0. 0	21. 48. 20	0. 0	·1006	0. 0	·00875	1. 40	56 ·0	57 ·0
	***	0. 52	·1006	3. 26	·00660	3. 40	57 ·0	58 ·0
1. 45	50. 35	1. 40	·1001		·00687	9. 40	58 ·0	59 ·5
3. 0	48. 0	3. 5	·0998	3. 45	·00695	23. 30	55 ·0	56 ·0
	***	3. 10	·0999		·00712			
5. 15	46. 0	3. 52	·0998	4. 55	·00697			
8. 22	45. 25	4. 25	·1003	5. 3	·00750			
9. 0:	43. 0	4. 59	·0999	5. 20	·00735			
10. 8	46. 10	5. 10	·1002	9. 0	·00697			
10. 30	42. 35	5. 50	·1004	11. 15	·00738			
10. 56	44. 35	6. 25	·1006	16. 15	·01027			
12. 0	46. 10	7. 14	·1002	21. 0	·01216			
	***	8. 12	·1008	22. 57	·01185			
18. 0	45. 25	8. 32	·1007		(†)			
19. 58	45. 5	8. 46	·1011					
21. 30	47. 30	9. 0	·1007					
21. 50	45. 35	9. 42	·1006					
22. 9	47. 35	9. 49	·1009					
	***	10. 12	·1005					
22. 55	47. 0	10. 35	·1021					
23. 45	48. 40	10. 43	·1014					
23. 59	50. 0	11. 24	·1010					
		12. 16	·1010					
		13. 43	·1010					
		14. 13	·1012					
			***					
		18. 20	·1018					
		20. 25	·1018					
		21. 18	·1012					
		22. 5	·1011					
		23. 0	·1008					
			(†)					
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
0. 0	21. 50. 5	0. 0	·1008	0. 0	·01178	9. 50	58 ·0	60 ·0
	***		***	2. 15	·01024	21. 40	55 ·0	56 ·0
1. 45	48. 30	1. 30	·1002	4. 34	·00665			
7. 22	45. 0	4. 45	·1004		·00687			
8. 39	45. 30	6. 44	·1005	7. 5	·00680			
9. 2	43. 0	7. 44	·1006	7. 8	·00765			
9. 45	45. 0	8. 12	·1001	7. 12	·00778			
10. 29	44. 25		***		·00915			
12. 0	45. 20	10. 0	·1004	12. 12	·00925			
12. 20	49. 0	12. 11	·1006	20. 15	·01208			
12. 40	47. 0	12. 20	·1016	23. 59	·01364			
13. 28	44. 55	13. 4	·1014					
14. 10	46. 0	13. 29	·1014					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 11		Nov. 11						
h m	° ′ ″	h m		h m		h m	°	°
14. 44	21. 44. 40	13. 55	·1008					
15. 1	46. 15	16. 25	·1008					
15. 30	45. 35	16. 50	·1011					
16. 14	46. 30	20. 30	·1010					
18. 15	45. 25	21. 6	·1005					
21. 51	44. 50	23. 59	·0997					
23. 59	48. 0							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 0	21. 48. 0	0. 0	·0997	1. 0	·01387	1. 40	56 ·0	57 ·0
2. 10	49. 5	1. 27	·0996	3. 30	·01257	3. 40	57 ·5	58 ·0
4. 38	46. 35	2. 25	·0999	5. 42	·01232	9. 40	58 ·5	59 ·0
6. 29	45. 0		***	5. 46	·01107	21. 40	54 ·0	56 ·0
7. 2:	44. 0	3. 47	·1008	7. 0	·01047			
7. 35	45. 0	4. 18	·1006	9. 30	·01023			
11. 13	43. 20	6. 27	·1008	15. 30	·01095			
11. 57	44. 40	6. 45	·1002	21. 45	·01345			
12. 15	44. 0	7. 45	·1008	22. 45	·01405			
12. 34	44. 40	8. 17	·1007	23. 59	·01397			
12. 45	44. 25	10. 55	·1008					
13. 11	46. 30	11. 10	·1014					
13. 37	44. 45	11. 30	·1011					
14. 29	46. 0	12. 36	·1007					
16. 51	44. 40	13. 50	·1011					
19. 6	45. 35	15. 30	·1011					
22. 15	44. 0	17. 35	·1015					
23. 59	47. 30	17. 48	·1016					
		19. 10	·1016					
		19. 25	·1018					
		20. 35	·1017					
		22. 0	·1008					
		23. 59	·1004					
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 0	21. 47. 30	0. 0	·1004	0. 45	·01320	1. 40	54 ·8	55 ·5
2. 5	49. 0	1. 0	·1004	2. 15	·01308	3. 40	55 ·0	56 ·0
5. 0	45. 25	2. 4	·1006	7. 16	·01107	9. 40	55 ·0	56 ·0
6. 35	45. 0	3. 40	·1005	7. 20	·01176	21. 40	50 ·5	51 ·5
	(†)	5. 30	·1006	7. 22	·01182			
9. 0	45. 25	7. 5	·1010		·01240			
13. 1	46. 0		(†)	15. 45	·01348			
13. 50	47. 20	9. 5	·1013	20. 45	·01339			
15. 20	45. 30	13. 56	·1023	23. 59	·01301			
17. 45	45. 50	14. 15	·1022					
20. 30	45. 0	16. 6	·1021					
	()	19. 50	·1027					
		19. 55	·1023					
			(†)					
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 30	21. 49. 50	0. 30	·1007	0. 35	·01332	1. 40	51 ·5	53 ·0
1. 10	49. 20	1. 47	·1007	2. 5	·01276	3. 40	53 ·1	54 ·0
2. 2	50. 5	3. 44	·1005	3. 15:	·01172	9. 40	54 ·5	55 ·5
3. 46	47. 25	4. 37	·1010	4. 45	·00970	21. 40	47 ·5	48 ·5
7. 10	44. 45	5. 28	·1008	7. 52	·00732			
9. 30	40. 35	8. 11	·1016	7. 59	·00803			
12. 44	46. 30	8. 16	·1020	10. 30	·00787			
14. 20	45. 50	8. 36	·1018	15. 0	·01047			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 14		Nov. 14		Nov. 14				
h m	° ′ ″	h m		h m		h m	°	°
17. 40	21. 48. 5	11. 12	·1018	17. 19	·01292			
21. 30	46. 25		***		·01250			
22. 14	44. 0	12. 43	·1017	19. 0	·01249			
23. 59	48. 0	16. 18	·1030	22. 25	·01170			
		17. 29	·1028	23. 59	·01207			
		19. 42	·1032					
		22. 45	·1020					
		23. 59	·1017					
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 0	21. 48. 0	0. 5	·1011	0. 15	·01220	1. 40	47 ·0	48 ·5
1. 55	48. 15	3. 0	·1015	1. 0	·01251	3. 40	49 ·5	51 ·0
3. 56	45. 50	3. 29	·1017	2. 15:	·01208	21. 40	43 ·0	45 ·0
7. 0	44. 30	3. 50	·1013	5. 0	·00827			
9. 30	46. 55	4. 33	·1016	7. 45:	·00537			
10. 8	42. 20	4. 50	·1014	9. 15:	·00488			
10. 52	46. 25	7. 27	·1018	14. 15	·00756			
13. 14	47. 15	8. 34	·1020	17. 48	·01190			
13. 46	49. 15	9. 1	·1014	21. 5	·01170			
14. 10	52. 25	9. 33	·1014	22. 0	·01148			
14. 59	47. 25	9. 40	·1019	23. 50	·01207			
15. 31	49. 35	9. 52	·1014					
16. 30	48. 0	10. 16	·1017					
20. 31	45. 50		***					
21. 0:	44. 30	11. 30	·1026					
21. 44	46. 0	12. 2	·1024					
22. 5	45. 20	13. 45	·1023					
23. 59	47. 35	13. 54	·1031					
		14. 15	·1030					
		14. 27	·1032					
		15. 3	·1024					
		16. 26	·1031					
		17. 40	·1035					
		20. 36	·1034					
		22. 0	·1028					
		22. 37	·1020					
		23. 30	·1023					
		23. 59	·1019					
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
0. 0	21. 47. 40	0. 0	·1019	0. 40	·01198	1. 40	45 ·5	47 ·0
0. 40	49. 0	0. 48	·1016	1. 35	·01147	3. 40	48 ·5	49 ·5
0. 51	48. 25	1. 20	·1018	3. 0	·00963	9. 40	51 ·0	52 ·0
	***	1. 30	·1015	5. 20	·00495	21. 40	48 ·0	49 ·0
2. 25	49. 35	2. 26	·1016	6. 0	·00527			
	***	3. 28	·1010	9. 0	·00531			
3. 51	49. 10	3. 35	·1005	16. 0	·00448			
	***		***	20. 45	·00576			
5. 30	49. 15	5. 10	·1002	21. 44	·00571			
6. 7	47. 0	5. 21	·1006		·00760			
6. 55	48. 0	5. 37	·1002	23. 43	·00808			
	***	5. 47	·1005					
8. 45	44. 55	6. 11	·1008					
9. 0	43. 0	6. 45	·1002					
9. 30	43. 30	6. 48	·1004					
10. 1	39. 10	7. 5	·1001					
	***	7. 27	·1001					
11. 15	41. 0	7. 46	·0997					
	***	8. 5	·0999					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

November 13. The time-piece stopped twice, and consequently two portions of the Photographic Traces for the Horizontal Force and Declination Magnets cannot be used.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 16		Nov. 16						
h m	° ′ ″	h m		h m		h m	°	°
12. 9	21. 39. 5	8. 12	·0995					
12. 45	42. 10	8. 30	·0996					
13. 52	42. 35	8. 40	·1001					
14. 50:	46. 30	8. 49	·1000					
15. 31	45. 0	10. 3	·1006					
15. 57	46. 0		***					
16. 40	45. 20	10. 57	·1007					
17. 15:	48. 0	11. 10	·1011					
18. 0	45. 15	11. 19	·1010					
18. 35:	46. 0	11. 28	·1014					
19. 4	44. 40	11. 45	·1012					
	***	12. 0	·1012					
21. 30	46. 0	12. 40	·1013					
21. 57	44. 15	13. 17	·1014					
22. 5	45. 0	14. 10	·1009					
	***	14. 30	·1012					
22. 30	44. 30	15. 48	·1013					
22. 50	47. 15	16. 0	·1011					
	***	16. 30	·1014					
23. 59	48. 0	16. 35	·1011					
		18. 12	·1019					
		19. 3	·1023					
		19. 15	·1026					
		19. 23	·1024					
		19. 37	·1028					
		20. 45	·1024					
			***					
		23. 5	·1015					
		23. 40	·1010					
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
0. 2	21. 48. 0	0. 25	·0998	0. 0	·00786	1. 40	50 ·5	52 ·0
0. 15	50. 25	1. 0	·0994	0. 20	·00798	3. 40	53 ·0	53 ·5
0. 29	49. 50	1. 30	·0991	2. 56	·00592	9. 40	53 ·0	54 ·0
0. 46	50. 15	1. 50	·0998	4. 20	·00618	23. 0	50 ·5	52 ·0
1. 0	49. 45	2. 52	·0988	6. 38	·00610			
1. 15	50. 25	3. 8	·0992	6. 49	·00638			
1. 28	49. 5	4. 5	·0990	7. 27	·00627			
2. 30	51. 30	4. 17	·0994	12. 15	·00563			
5. 31	49. 10	4. 30	·0992	13. 15	·00580			
8. 45	44. 15	5. 0	·0998	14. 30	·00556			
9. 7	42. 20	5. 36	·1016	16. 55	·00592			
9. 36	43. 30	6. 28	·1015	23. 35	·00756			
10. 7	41. 45	6. 42	·1010					
10. 45	41. 0	7. 28	·1014					
11. 10	35. 30	7. 35	·1011					
11. 40	30. 20	7. 42	·1014					
12. 8	33. 0	8. 37	·1011					
12. 30	30. 0	10. 37	·1009					
13. 17	37. 15	11. 2	·1011					
13. 30	42. 0	11. 13	·1010					
13. 45	42. 0	11. 30	·1017					
14. 1	45. 0	11. 55	·1016					
14. 36	40. 0	12. 40	·0989					
14. 53	39. 35	13. 5	·0994					
15. 35	46. 30	13. 20	·0990					
15. 49	45. 30	14. 0	·1006					
16. 10	48. 35	14. 34	·1008					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 17		Nov. 17						
h m	° ′ ″	h m		h m		h m	°	°
16. 35	21. 48. 40	15. 13	·0983					
17. 0	46. 0	15. 47	·1002					
17. 15	44. 10	16. 3	·1004					
17. 46:	45. 30	16. 27	·1016					
18. 43	43. 50	17. 0	·1011					
18. 55	44. 55	17. 45	·1001					
	***	18. 30	·1015					
19. 45	44. 0		***					
20. 45	46. 55	19. 35	·1023					
	***	20. 3	·1019					
21. 34	46. 25	20. 13	·1012					
22. 0	47. 30	20. 40	·1008					
22. 14	45. 35		***					
	***	22. 16	·1006					
23. 25	49. 30	22. 32	·1001					
23. 59	48. 35		***					
		23. 30	·1001					
Nov. 18		Nov. 18		Nov. 18		Nov. 18		
0. 0	21. 48. 45	0. 0	·0999	0. 0	·00771	9. 10	52 ·0	53 ·0
0. 18	51. 0	0. 15	·1001	2. 20	·00755	21. 40	50 ·0	51 ·0
0. 55:	50. 25	0. 30	·0996	3. 20	·00743			
1. 31	52. 20	1. 5	·0999	3. 57	·00766			
2. 21	49. 15	1. 18	·0994	6. 0	·00710			
2. 35	51. 35	1. 35	·1000	8. 35	·00647			
3. 0	49. 5	1. 46	·0997	18. 0	·00655			
3. 14	49. 0	2. 5	·0998	22. 0	·00747			
3. 31	40. 35	2. 33	·1012	23. 59	·00897			
3. 46	41. 40	2. 48	·1001					
4. 14:	45. 30	3. 16	·0990					
4. 46	47. 10	3. 28	·0983					
5. 44	45. 30	4. 1	·1009					
6. 0	42. 30	4. 35	·1012					
6. 30	33. 35	4. 47	·1011					
7. 30	44. 0	4. 51	·1014					
	***	5. 37	·1002					
8. 30	44. 40	5. 54	·0989					
10. 44	44. 5	6. 15	·1002					
12. 45	45. 0	6. 24	·0997					
17. 30	45. 0	6. 40	·1015					
19. 10	46. 0	6. 53	·1014					
20. 10	45. 0	7. 0	·1017					
	***	7. 12	·1009					
21. 45	46. 30	8. 0	·1013					
22. 14	45. 0	8. 11	·1009					
23. 59	48. 30	8. 33	·1012					
		17. 30	·1018					
		19. 0	·1017					
		19. 55	·1020					
		23. 59	·1006					
Nov. 19		Nov. 19		Nov. 19		Nov. 19		
0. 0	21. 48. 30	0. 0	·1006	1. 35	·00931	1. 40	51 ·0	52 ·0
	***	0. 37	·1006	4. 11	·00770	3. 40	53 ·0	54 ·0
1. 4	49. 35	0. 50	·1002	5. 0	·00706	9. 40	53 ·0	54 ·5
	***	1. 0	·1004	6. 37	·00638	21. 40	49 ·0	50 ·5
2. 50	48. 50	1. 30	·1002	9. 45	·00552			
3. 23	46. 40	1. 48	·1006	18. 20	·00791			
4. 0:	48. 0		***	22. 0	·00892			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 19		Nov. 19		Nov. 19				
h m	° ′ ″	h m		h m		h m	°	°
4. 56	21. 45. 15	2. 25	·0992	23. 59	·00969			
6. 45	44. 5		***					
7. 15	37. 55	3. 26	·1005					
8. 0	44. 0		***					
9. 45	44. 15	4. 5	·1000					
11. 30	45. 20		***					
17. 15	44. 25	4. 40	·1006					
20. 45	44. 20	5. 3	·1000					
	***	5. 32	·1005					
22. 15	45. 25	5. 40	·1001					
23. 59	49. 25	5. 48	·1002					
		6. 5	·0999					
		6. 35	·1006					
		6. 45	·1008					
		7. 12	·1003					
		7. 27	·1012					
		8. 45	·1011					
		10. 5	·1013					
		12. 30	·1010					
		13. 25	·1012					
		19. 44	·1022					
		20. 30	·1025					
		21. 10	·1024					
		22. 8	·1014					
		23. 0	·1009					
		23. 59	·1007					
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
0. 0	21. 49. 30	0. 0	·1007	0. 15	·00967	1. 40	50 ·0	51 ·0
0. 40	48. 20	1. 26	·1015	1. 30	·00967	3. 40	53 ·0	53 ·0
1. 55	50. 0	2. 25	·1008	4. 30	·00708	9. 40	52 ·0	52 ·5
4. 50	46. 0	2. 45	·1006	6. 35	·00547	21. 40	48 ·0	50 ·0
5. 48	45. 50	3. 47	·1005		·00573			
7. 30	44. 15	3. 54	·1003	10. 15	·00548			
8. 8	41. 0		***	15. 44	·00720			
9. 7	44. 10	5. 11	·1004	22. 0	·01002			
9. 16	43. 0	5. 32	·1009	23. 59	·01117			
9. 55	43. 0	5. 37	·1007					
10. 35	39. 30	6. 25	·1012					
11. 23	43. 25	7. 38	·1012					
11. 35	42. 40	7. 46	·1008					
11. 56	45. 0	8. 17	·1012					
12. 33	40. 30	8. 40	·1009					
12. 58	38. 40	10. 5	·1013					
	***	10. 11	·1017					
13. 51	42. 0	10. 55	·1009					
14. 4	44. 30	11. 42	·1014					
14. 28	44. 55	12. 0	·1018					
15. 6	47. 50	12. 15	·1025					
15. 30	52. 30	13. 20	·1019					
16. 0	47. 15	14. 15	·1015					
16. 20	46. 0	15. 18	·1017					
16. 35	47. 0	15. 34	·1026					
17. 0	45. 35	16. 30	·1019					
17. 26	46. 0	17. 30	·1026					
17. 48	44. 0	19. 15	·1029					
19. 1	46. 0	20. 40	·1018					
19. 37	45. 5		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 20		Nov. 20						
h m	° ′ ″	h m		h m		h m	°	°
20. 45	21. 48. 30	22. 27	·1008					
21. 30	48. 0	23. 17	·1007					
21. 48	48. 30	23. 35	·1002					
22. 20	47. 0	23. 59	·1000					
23. 22	47. 10							
23. 59	49. 30							
Nov. 21		Nov. 21		Nov. 21		Nov. 21		
0. 0	21. 49. 40	0. 0	·1000	0. 15	·01121	1. 40	50 ·0	50 ·5
1. 15	52. 35	0. 28	·0996	1. 15	·01128	3. 40	52 ·5	54 ·0
1. 45	51. 40	1. 50	·0992	4. 0	·00877	9. 40	51 ·0	52 ·0
	***	2. 16	·0999	5. 5	·00770	21. 40	48 ·0	49 ·0
3. 0	55. 35	3. 7	·0997	6. 30	·00682			
3. 38	52. 30	3. 32	·0994	8. 38	·00651			
3. 59	54. 10	3. 45	·1002		·00835			
4. 55	48. 30	4. 15	·0992	10. 0	·00770			
5. 15	49. 40	4. 36	·0993	14. 0	·00843			
6. 15	45. 0	4. 58	·0997	15. 45	·00895			
6. 35	45. 15	5. 7	·0996	23. 59	·01330			
7. 43	39. 0	5. 18	·1000					
8. 55	44. 5	5. 28	·0995					
9. 30	43. 55	6. 3	·0997					
	***		***					
10. 53	45. 0	6. 55	·0989					
11. 26	53. 10	7. 10	·0995					
	***	7. 44	·0990					
12. 25	43. 0	7. 55	·0995					
13. 0	46. 35	8. 15	·0994					
13. 16	44. 15	9. 10	·1014					
13. 43	43. 40	9. 35	·1012					
13. 57	45. 0	10. 3	·1014					
14. 25	43. 25	10. 18	·1011					
	***	10. 31	·1015					
15. 17	54. 30	11. 0	·1016					
15. 37	53. 0	11. 17	·1015					
16. 21	42. 30	11. 38	·1017					
19. 10	45. 35	12. 10	·1008					
20. 14	44. 30	12. 46	·1008					
20. 30	46. 0	13. 18	·1018					
	***	13. 40	·1012					
22. 14	46. 35	14. 45	·1013					
	***	15. 20	·1002					
23. 31	49. 25	15. 47	·1017					
		16. 17	·1022					
		16. 25	·1020					
		16. 46	·1022					
		17. 30	·1020					
		18. 18	·1024					
		18. 37	·1022					
		19. 5	·1021					
		19. 12	·1025					
		19. 25	·1020					
		20. 0	·1020					
		20. 55	·1022					
		22. 28	·1008					
		23. 30	·1004					
		23. 45	·1000					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 22		Nov. 22		Nov. 22		Nov. 22		
h m	° ′ ″	h m		h m		h m	°	°
0. 22	21. 51. 0	0. 23	·0998	0. 20	·01317	1. 40	50 ·5	51 ·0
1. 10	51. 0	2. 45	·0998	1. 30	·01313	3. 40	52 ·0	52 ·0
2. 45	48. 10	2. 59	·1002	2. 35:	·01211	9. 40	51 ·5	52 ·0
4. 0	47. 20	5. 0	·1000	4. 40:	·00864	21. 40	45 ·0	47 ·0
6. 42	42. 40	6. 20	·1002	6. 26	·00724			
7. 40	43. 30	8. 50	·1012	6. 29	·00766			
7. 51	44. 35		***	8. 0:	·00758			
9. 20	44. 30	14. 15	·1019	9. 0	·00777			
9. 37	45. 0	14. 33	·1026	14. 15	·01104			
10. 0	43. 55	15. 45	·1020	18. 27	·01298			
11. 48	46. 35	18. 0	·1026	18. 32	·01260			
12. 53	46. 10	18. 40	·1036	19. 12	·01263			
13. 20	47. 0	19. 18	·1031	21. 30	·01248			
13. 31	48. 50	19. 40	·1032	23. 59	·01278			
13. 59	47. 0	20. 8	·1027					
14. 15	49. 25		***					
15. 7	44. 40	22. 18	·1020					
15. 55	46. 20	23. 59	·1014					
16. 47	45. 40							
18. 5	44. 15							
19. 31	43. 35							
21. 1	44. 35							
21. 55	46. 5							
23. 10:	45. 50							
23. 30	48. 25							
23. 40	47. 35							
23. 59	48. 30							
Nov. 23		Nov. 23		Nov. 23		Nov. 23		
0. 0	21. 48. 35	0. 0	·1014	0. 30	·01270	1. 40	45 ·5	49 ·5
0. 14	47. 25	0. 30	·1010	2. 15:	·01158	3. 40	50 ·8	52 ·0
0. 17	49. 0	1. 23	·1008	4. 34	·00751	9. 40	51 ·5	52 ·0
0. 32	47. 50	1. 45	·0998	6. 5	·00547	21 ·40	47 ·0	49 ·0
1. 14	50. 0	2. 42	·0994	7. 35	·00566			
1. 45	49. 55	3. 0	·0998	7. 45	·00645			
2. 21	52. 10	3. 55	·1004	9. 5	·00629			
2. 55	50. 10	4. 15	·1009	11. 36	·00648			
3. 5	50. 15	4. 33	·1006	14. 35	·00743			
3. 50:	47. 35	5. 28	·1007	15. 45	·00770			
4. 30	47. 0	5. 35	·1004	19. 30	·00967			
4. 50	45. 30	5. 45	·1006	23. 55	·01098			
6. 15	45. 0	6. 10	·1000					
6. 44	42. 35	6. 20	·1002					
7. 32	44. 55	6. 25	·0998					
	***	6. 42	·1002					
8. 45	42. 15	7. 9	·0996					
9. 30	43. 50	7. 25	·1004					
10. 29	43. 30	7. 30	·1002					
10. 44	42. 25	7. 43	·1007					
11. 0	42. 30	8. 12	·1003					
11. 40	39. 0	8. 17	·1006					
12. 0	21. 41. 35	8. 36	·1006					
12. 16	22. 0. 0	8. 45	·1010					
12. 46	21. 37. 35	8. 58	·1003					
13. 16	41. 55	9. 30	·1010					
13. 25	41 15	10. 30	·1007					
13. 37	42. 15	10. 35	·1005					
13. 58	40. 30	10. 55	·1002					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 23		Nov. 23						
h m	° ′ ″	h m		h m		h m	°	°
14. 32	21. 44. 30	11. 3	·1006					
14. 46	44. 40	11. 9	·1007					
15. 31	38. 35	11. 15	·1001					
16. 1	40. 0	11. 45	·0991					
16. 29	43. 5	11. 50	·0993					
16. 41	42. 35	12. 18	·1012					
16. 51	43. 50	12. 37	·0993					
	***	13. 0	·1016					
18. 30	44. 50	13. 33	·1010					
	***	13. 39	·1014					
19. 21	44. 35	13. 52	·1011					
	***	14. 13	·1011					
21. 0	46. 20	14. 30	·1005					
	***		***					
22. 9	45. 0	15. 20	·1017					
23. 55	48. 55	15. 37	·1014					
		16. 0	·1008					
		16. 25	·1009					
		16. 45	·1013					
		17. 15	·1011					
			***					
		18. 2	·1017					
		18. 12	·1014					
		19. 0	·1018					
		20. 25	·1016					
		20. 31	·1018					
		21. 5	·1014					
			***					
		23. 57	·1006					
Nov. 24		Nov. 24		Nov. 24		Nov. 24		
1. 0	21. 49. 15	0. 20	·1010	0. 10	·01127	1. 40	49 ·5	50 ·5
4. 15	45. 20	3. 45	·1011	1. 15	·01097	3. 40	51 ·5	52 ·0
11. 8	45. 30	7. 52	·1013	2. 45:	·00968	9. 40	51 ·0	52 ·0
11. 21	44. 25	8. 2	·1018	5. 30	·00650	23. 45	45 ·0	46 ·0
	***	8. 11	·1017	7. 15	·00524			
12. 34	44. 50	10. 42	·1015	8. 30	·00510			
12. 45	45. 50	10. 55	·1018	10. 5	·00528			
13. 27	44. 0	11. 48	·1015	14. 30	·00696			
13. 46	45. 5	12. 49:	·1023	18. 15	·00884			
	***	13. 33	·1018	22. 0	·01017			
16. 1	45. 35	13. 42	·1020	23. 59	·01130			
20. 13	44. 35	13. 48	·1016					
22. 0	46. 55	15. 0	·1018					
23. 16	46. 0	17. 42	·1024					
23. 28	47. 45	21. 30	·1017					
23. 46	47. 30	22. 25	·1018					
		23. 11	·1014					
		23. 31	·1020					
		23. 59	·1013					
Nov. 25		Nov. 25		Nov. 25		Nov. 25		
0. 0	21. 47. 30	0. 0	·1018	0. 3	·01167	11. 10	45 ·0	46 ·0
2. 13	48. 25	0. 25	·1013	1. 0	·01218	21. 40	42 ·0	44 ·0
	***	2. 25	·1023	5. 5	·01213			
4. 45	44. 50		***	7. 30	·01192			
7. 7	44. 35	4. 20	·1023	11. 10	·01229			
7. 38	37. 30	5. 21	·1026	13. 31	·01203			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. (of H. F. Magnet.	(of V. F. Magnet.
Nov.25		Nov.25		Nov.25		h m		
h m	° ′ ″	h m		h m				
8. 28	21. 45. 55	5. 30	·1023	15. 10	·01195			
8. 45	45. 0	6. 52	·1023	16. 45	·01224			
8. 58	45. 30	7. 0	·1021	22. 5	·01177			
9. 15	44. 15	7. 12	·1023	23. 59	·01224			
9. 30	45. 0	7. 28	·1014					
9. 43	44. 10	7. 50	·1018					
10. 12	45. 30	8. 0	·1017					
10. 55	45. 0	8. 20	·1020					
11. 27	47. 5	8. 33	·1018					
	***	8. 47	·1021					
12. 15	45. 0	9. 9	·1019					
12. 44	48. 30	9. 25	·1023					
13. 4	44. 50	9. 36	·1020					
13. 24	43. 30	10. 2	·1024					
13. 50	46. 10	10. 45	·1022					
14. 46	41. 50	11. 7	·1025					
15. 35	47. 30	11. 15	·1023					
15. 55	47. 55	11. 30	·1025					
16. 35	46. 30		***					
20. 30	46. 55	12. 24	·1022					
	***	12. 45	·1039					
21. 26	47. 30	13. 13	·1040					
22. 0	46. 20	13. 40	·1022					
22. 14	47. 50	14. 5	·1025					
22. 31	47. 15	14. 17	·1029					
22. 50	48. 15	14. 37	·1023					
23. 14	47. 30	14. 45	·1023					
23. 59	48. 30	15. 10	·1016					
		17. 48	·1029					
		17. 55	·1025					
		18. 40	·1030					
		21. 44	·1028					
		22. 50	·1022					
		23. 15	·1016					
		23. 59	·1017					
Nov.26		Nov.26		Nov.26		Nov.26		
0. 0	21. 48. 35	0. 0	·1017	0. 20	·01230	1. 40	45 ·0	47 ·0
0. 39	49. 30	3. 15	·1012	1. 35	·01136	3. 40	[illegible] ·0	50 ·0
2. 2	48. 30	5. 15	·1007	4. 12	·00532	9. 40	52 ·0	53 ·0
3. 30	46. 0	6. 33	·1011	5. 45	·00568	21. 40	48 ·0	49 ·0
10. 45	44. 20	9. 43	·1007	8. 15	·00524			
11. 0	45. 15	9. 48	·1013	11. 30	·00483			
11. 45	44. 30	10. 10	·1008	14. 0	·00510			
14. 10	46. 10	10. 45	·1009	19. 0	·00668			
16. 45	47. 0	10. 52	·1016	22. 45	·00792			
19. 43	44. 45	11. 20	·1010	23. 35	·00830			
20. 55	45. 0	13. 0	·1006					
	***	17. 30	·1019					
21. 52	47. 10	22. 0	·1019					
22. 20	46. 0	23. 45	·1009					
23. 59	47. 45							
Nov.27		Nov.27		Nov.27		Nov.27		
0. 0	21. 47. 50	0. 0	·1009	0. 0	·00826	1. 40	49 ·5	51 ·0
1. 10	49. 10	1. 0	·1003	1. 0	·00818	3. 40	52 ·5	53 ·0
1. 21	48. 0		***	1. 30	·00798	9. 40	53 ·0	54 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. (of H. F. Magnet.	(of V. F. Magnet.
Nov.27		Nov.27		Nov.27		Nov.27		
h m	° ′ ″	h m		h m		h m		
1. 32	21. 48. 35	5. 30	·1002	3. 30	[illegible]	21. 40	50 ·0	52 ·0
3. 16	46. 10	5. 55	·1005		[illegible]			
4. 40	46. 35	6. 45	·1000	5. 1	·00605			
8. 14	43. 40	7. 26	·1004	5. 7	·00748			
11. 30	44. 20	13. 40	·1006	6. 15	·00708			
15. 45	46. 0	18. 45	·1015	9. 59	·00685			
20. 29	44. 40	20. 35	·1018		·01062			
	***		[illegible]	11. 15	·01045			
21. 35	45. 35	21. 59	·1017	12. 15	·01038			
21. 51	44. 40	23. 13	·1013	17. 0	·01110			
23. 59	46. 30			21. 45	·01246			
				22. 30	·01250			
				23. 30	·01299			
Nov.28		Nov.28		Nov.28		Nov.28		
0. 0	21. 46. 30	0. 0	·1006	0. 0	·01307	1. 40	53 ·0	54 ·0
1. 6	47. 40	1. 0	·1007	1. 25	·01303	3. 40	53 ·0	54 ·0
2. 29	47. 0	2. 45	·1002	3. 15	·01158	9. 40	54 ·0	55 ·0
2. 44	46. 0	4. 0	·0997	5. 20	·00890	21. 40	48 ·3	50 ·0
4. 8	46. 0	5. 30	·1000	8. 0	·00704			
6. 14	44. 15	7. 55	·1007	9. 55	·00727			
8. 12	44. 30	8. 28	·1004	12. 30	·00847			
	[illegible]	9. 0	·1006	16. 0	·01038			
10. 0	45. 0	9. 10	·1004	20. 50	·01337			
10. 14	44. 20	9. 45	·1008	22. 58	·01273			
10. 44	45. 25	13. 0	·1008		(†)			
	[illegible]		***					
15. 35	47. 25	14. 25	·1011					
	***		[illegible]					
16. 50	45. 30	16. 50	·1026					
	[illegible]		[illegible]					
17. 16	47. 0	18. 10	·1019					
17. 43	46. 0	18. 40	·1026					
18. 7	48. 25	19. 43	·1035					
18. 30	47. 0	20. 25	·1026					
	***	20. 58	·1027					
19. 45	47. 5	21. 30	·1023					
20. 0	45. 35		(†)					
21. 29	45. 55							
	(†)							
Nov.29		Nov.29		Nov.29		Nov.29		
0. 6	21. 50. 30	0. 10	·1004	0. 10	·01287	1. 40	50 ·0	51 ·0
	***	1. 30	·1002	1. 15	·01318	3. 40	52 ·5	53 ·0
0. 41	50. 40	2. 10	·0992	2. 50	·01234	9. 40	53 ·5	55 ·0
	***	2. 15	·0997	4. 42	·00983	21. 40	49 ·0	50 ·0
1. 26	54. 0	2. 28	·0992	5. 20	·00943			
	***		[illegible]	6. 30	·00810			
2. 30	49. 10	4. 0	·0999	7. 35	·00758			
2. 55	48. 55	4. 30	·0995	11. 0	·00704			
3. 16	47. 0	4. 48	·0977	12. 10	·00667			
	***	5. 10	·0979	12. 55	·00699			
4. 14	47. 15	5. 16	·0975	15. 0	·00757			
4. 20	48. 20	5. 55	·0980	22. 30	·01065			
4. 29	47. 0	6. 20	·0978	23. 31	·01122			
4. 31	47. 40	6. 30	·0977					
4. 49	46. 30	6. 52	·0974					
5. 1	46. 35	7. 2	·0967					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 29		Nov. 29						
h m	° ′ ″	h m		h m		h m	°	°
5. 17	21. 42. 40	7. 18	·0969					
6. 0	45. 40	7. 30	·0967					
6. 19	44. 20	7. 54	·0973					
6. 51	47. 30	8. 15	·0966					
7. 13	43. 0	8. 27	·0975					
7. 56	45. 10	8. 42	·0967					
8. 25	40. 0	9. 18	·0983					
9. 8	26. 25	9. 26	·0978					
9. 58	47. 0	9. 50	·0980					
10. 15	41. 30	10. 10	·0970					
10. 28	41. 15	10. 18	·0975					
11. 0	32. 20	10. 45	·0970					
11. 30	37. 0	11. 12	·0971					
11. 47	32. 30	12. 15	·0974					
12. 8	36. 15	12. 20	·0974					
12. 16	35. 30	12. 35	·0971					
13. 10:	43. 55	12. 55	·0983					
13. 30	43. 10	13. 0	·0984					
13. 45	45. 15	13. 30	·0979					
14. 55	46. 0	13. 37	·0983					
16. 0	44. 35	16. 30	·0990					
17. 55	45. 35	17. 45	·0997					
19. 40	45. 35	20. 45	·0998					
20. 15	47. 5	21. 8	·0990					
	***	21. 27	·0992					
20. 46	45. 55	21. 36	·0986					
		23. 37	·0990					
22. 16	45. 45							
23. 30	47. 35							
Nov. 30		Nov. 30		Nov. 30		Nov. 30		
0. 0	21. 47. 35	0. 0	·0978	0. 0	·01164	1. 40	51 ·0	51 ·0
0. 35	48. 40		***	1. 33:	·01152	3. 40	52 ·5	53 ·0
1. 8	48. 10	2. 8	·0979	4. 30:	·00822	9. 40	51 ·0	52 ·0
1. 30	45. 0		***		{·00621	21. 40	46 ·0	47 ·0
2. 30	46. 35	4. 0	·0989	7. 40	{·00746			
3. 52	44. 25		***	9. 30	·00722			
6. 57	45. 0	5. 25	·0987	11. 32	·00724			
	***	6. 0	·0987	15. 30	·01082			
10. 1	43. 35	6. 12	·0983	18. 22	{·01312			
10. 15	45. 0	7. 35	·0987		{·01283			
	***	7. 42	·0990	21. 30	·01286			
12. 45	46. 25	8. 15	·0986	22. 30	·01280			
13. 8	44. 30	8. 30	·0991	23. 59	·01213			
13. 20	46. 35	8. 40	·0987					
13. 30	46. 35	9. 2	·0987					
13. 50	49. 35	9. 30	·0991					
14. 10	49. 5		***					
14. 30	46. 15	12. 5	·0986					
15. 0	44. 30	12. 50	·0992					
15. 30	45. 5	13. 3	·0988					
15. 54	44. 30	13. 25	·0991					
17. 40	45. 0	13. 40	·0990					
	***	14. 13	·0999					
20. 52	45. 0	14. 38	·0999					
	***	15. 0	·0994					
23. 39	47. 45	15. 48	·0993					
		16. 45	·1001					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Nov. 30						
h m	° ′ ″	h m		h m		h m	°	°
		17. 35	·1000					
		18. 22	·1002					
		18. 34	·1006					
		18. 45	·1004					
		19. 53	·1005					
			***					
		23. 46	·1002					
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 45	21. 49. 55	0. 30	·1004	0. 12	·01330	1. 40	48 ·0	49 ·5
3. 46	46. 0	4. 15	·1002	2. 21	·01223	3. 40	50 ·0	50 ·5
9. 25	45. 25	5. 35	·1008	4. 30	·00947	9. 40	49 ·8	51 ·0
10. 10	44. 10	6. 15	·1005	6. 0:	·00725	23. 5	48 ·0	50 ·0
11. 0	45. 30	7. 5	·1009	7. 15	·00654			
11. 14	45. 0	7. 17	·1005	8. 45	·00620			
11. 31	49. 25	8. 19	·1008	12. 45	·00587			
11. 48	46. 30	8. 37	·1011	17. 5	·00686			
12. 2:	46. 5	10. 35	·1007	22. 5	·00817			
12. 30	44. 0	10. 50	·1008	23. 59	·00847			
13. 0	46. 30	11. 10	·1008					
13. 30	45. 25	11. 28	·1022					
14. 45	46. 40	11. 40	·1017					
15. 45	45. 35	12. 0	·1018					
17. 25	46. 35	13. 30	·1008					
20. 29	44. 40	17. 35	·1016					
23. 59	47. 35	17. 45	·1015					
		18. 35	·1020					
		21. 15	·1018					
		23. 59	·1011					
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 0	21. 47. 35	0. 0	·1010	0. 20	·00808	8. 40	49 ·0	50 ·5
0. 48	49. 35	2. 18	·1014	2. 35	·00850	21. 40	43 ·0	43 ·0
	***	2. 28	·1008	4. 30	·00807			
1. 13	48. 25	5. 40	·1008	6. 30	·00724			
1. 50	48. 35	5. 47	·1010	7. 3	·00710			
2. 20	47. 0	7. 3	·1008	9. 0	·00705			
3. 0	47. 15	12. 30	·1010	10. 35	·00737			
4. 25	45. 35	20. 30	·1018	15. 15	·00841			
5. 30	46. 40	22. 13	·1018	20. 8	{·01264			
7. 1	45. 35	23. 59	·1009		{·01235			
8. 31	46. 30			22. 15	·01194			
9. 14	44. 35			23. 59	·01243			
10. 0	46. 25							
12. 21	46. 30							
15. 20	47. 30							
20. 15	47. 35							
23. 59	47. 30							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	21. 47. 30	0. 0	·1008	0. 30	·01203	1. 40	46 ·0	47 ·0
1. 40	48. 25	2. 13	·1002	2. 30:	·01074	3. 40	49 ·0	49 ·5
3. 14	47. 10		***	6. 0	·00432	9. 40	49 ·5	50 ·5
8. 0	45. 40	4. 50	·1005	9. 0	·00421	21. 40	45 ·0	46 ·0
8. 30	47. 30	7. 17	·1011	10. 6	·00435			
8. 46	44. 35	7. 27	·1006	12. 15	·00508			
	***	7. 42	·1010	17. 15	·00864			
9. 26	44. 0	7. 48	·1006	19. 18	·00959			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 3		Dec. 3		Dec. 3				
h m	° ′ ″	h m		h m		h m	°	°
9. 46	21. 46. 0	7. 56	·1006	23. 22	·01027			
10. 0	44. 30	8. 0	·1004					
10. 31	43. 30	8. 15	·1006					
10. 44	44. 20	8. 27	·0999					
10. 58	43. 20	8. 42	·0996					
11. 8	44. 0	8. 47	·0992					
11. 21	46. 30	8. 54	·0995					
11. 45	44. 0	8. 57	·0990					
12. 0	45. 30	9. 3	·0995					
12. 22	44. 50	9. 10	·0991					
12. 40	46. 30	9. 13	·0992					
13. 14	46. 0	9. 17	·0989					
13. 27	47. 0	9. 47	·0998					
13. 51	46. 0	9. 55	·0994					
14. 25	48. 20	10. 5	·0997					
14. 49	47. 30	10. 20	·0993					
15. 36	48. 10	10. 35	·1000					
20. 1	46. 0	11. 5	·1000					
21. 20	47. 35	11. 15	·1002					
22. 58	48. 20	11. 30	·0991					
23. 9	47. 45	11. 45	·0999					
23. 30	49. 0	12. 13	·1000					
23. 55	48. 15	12. 25	·1004					
			***					
		19. 15	·1014					
		21. 0	·1016					
		23. 4	·1010					
		23. 15	·1015					
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 14	21. 49. 5	0. 0	·1005	0. 0	·00978	1. 40	48 ·0	48 ·8
0. 28	48. 30		***	1. 45:	·00847	3. 40	50 ·0	51 ·0
1. 15	49. 0	2. 33	·1001	4. 5	·00498	9. 40	54 ·5	55 ·5
1. 24	48. 10		***		·00537	21. 40	51 ·0	53 ·0
1. 45	49. 40	3. 42	·0977	6. 0	·00553			
2. 35	49. 5	4. 0	·0982	9. 37	·00540			
2. 44	50. 25	4. 14	·0989		·00618			
3. 0	50. 0		***	15. 0	·00639			
	***	5. 15	·0993	20. 45	·00721			
4. 5	44. 35	7. 15	·1000	23. 59	·00716			
4. 30	47. 30	8. 16	·0991					
9. 8	44. 40	8. 45	·0998					
9. 49	45. 0	10. 20	·0995					
10. 0	43. 35	10. 37	·0990					
10. 13	44. 10	10. 55	·0995					
10. 40	43. 0	11. 5	·0993					
11. 14	45. 5	11. 25	·1002					
11. 30	43. 0	12. 17	·0990					
11. 47	45. 0	12. 40	·0989					
12. 7	44. 35	13. 0	·0996					
12. 38	45. 40	13. 15	·0992					
13. 0:	44. 55	13. 20	·0993					
13. 30	46. 0	13. 45	·0992					
13. 46	44. 35	13. 54	·0995					
14. 46	46. 15	15. 22	·0996					
	***	16. 18	·1001					
15. 22	45. 30	16. 55	·1002					
16. 15	46. 35	17. 15	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 4		Dec. 4						
h m	° ′ ″	h m		h m		h m	°	°
16. 30	21. 45. 0	17. 33	·1001					
17. 29	46. 0	17. 45	·1006					
17. 52	47. 40	18. 13	·1004					
18. 29	46. 35	18. 18	·1007					
18. 39	44. 45	18. 24	·1002					
	***	18. 45	·1006					
19. 43	45. 0	18. 50	·1008					
20. 0	46. 30	18. 56	·1005					
20. 40	45. 5	19. 46	·1008					
21. 5	47. 40		***					
21. 15	46. 10	20. 58	·1003					
21. 30	47. 30	21. 7	·1007					
	***	21. 14	·1002					
22. 17	47. 30	21. 25	·1004					
22. 40	48. 30	22. 40	·0996					
22. 50	47. 45	23. 59	·0991					
	***							
23. 45	48. 0							
23. 59	48. 35							
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
0. 0	21. 48. 45	0. 0	·0990	1. 40	·00713*	1. 40	52 ·0	52 ·0
0. 6	49. 25	1. 35	·0993	3. 40	·00603*	3. 40	53 ·0	54 ·0
0. 50	47. 50	1. 45	·0990	9. 40	·01007*	9. 40	50 ·0	51 ·0
1. 35	49. 0	4. 36	·0998	21. 40	·01243*	21. 40	42 ·8	44 ·0
2. 30	47. 50	5. 50	·0999					
5. 0	45. 40	8. 45	·1000					
8. 30	46. 55	8. 57	·1003					
9. 55	44. 35	9. 18	·1002					
10. 24	47. 55	9. 57	·1008					
10. 45	44. 25	10. 13	·1023					
10. 55	45. 10	10. 32	·1003					
11. 44	45. 0	10. 45	·1007					
12. 38	47. 45	10. 55	·1003					
13. 13	46. 0	11. 20	·1007					
13. 30	47. 35	13. 40	·1007					
13. 47	48. 0	15. 10	·1015					
14. 13	52. 40	15. 20	·1011					
14. 52	48. 0	15. 29	·1014					
15. 15	45. 55	15. 49	·1012					
16. 0	47. 15	16. 0	·1015					
16. 46	45. 30	16. 57	·1016					
21. 45	47. 40	17. 30	·1019					
	***		***					
23. 45	49. 0	19. 35	·1020					
23. 59	49. 0	22. 2	·1023					
		23. 12	·1020					
		23. 59	·1017					
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 0	21. 48. 55	0. 0	·1018	1. 5	·01231	1. 40	45 ·0	46 ·0
4. 20	45. 0	0. 45	·1016	2. 57	·01121	3. 40	47 ·0	48 ·0
6. 40	45. 20	3. 35	·1007	7. 45	·00663	9. 40	47 ·2	49 ·0
6. 59	44. 25	4. 40	·1010	9. 0:	·00598	21. 40	42 ·0	44 ·0
8. 23	44. 20	4. 48	·1007	10. 45	·00569			
9. 0	45. 35	6. 46	·1008	14. 15	·00687			
9. 43	45. 0	7. 0	·1006	18. 17	·00930			
10. 19	38. 35		***	21. 50	·01192			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 6		Dec. 6		Dec. 6		h m	o	c
h m	° ′ ″	h m		h m				
10. 46	21. 43. 10	8. 30	·1008	22. 15	·01169			
11. 15	43. 30	9. 0	·1003	23. 59	·01208			
11. 30	45. 0	9. 36	·1003					
	***	10. 30	·1014					
12. 23	46. 0	11. 0	·1004					
14. 0	45. 40	11. 23	·1010					
14. 17	45. 0	11. 55	·1006					
15. 1	46. 30		***					
15. 23	45. 35	15. 46	·1009					
15. 58	46. 35	18. 20	·1019					
16. 25	45. 35	21. 44	·1019					
18. 16	47. 0	22. 5	·1016					
23. 59	46. 30	23. 59	·1011					
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	21. 46. 30	0. 0	·1011	1. 44	·01181	1. 40	44 ·2	45 ·2
0. 16	47. 0	1. 0	·1005	3. 15	·01047	3. 40	47 ·0	47 ·0
0. 40	48. 35	4. 10	·1014	6. 52:	·00642	9. 40	47 ·0	48 ·5
1. 39	47. 5	4. 25	·1006	8. 45	·00592	21. 40	43 ·0	45 ·0
2. 28	47. 15	4. 45	·1004	11. 5	·00578			
3. 45	45. 30	5. 0	·1007	13. 0	·00576			
6. 0	45. 30	6. 25	·1007	16. 15	·00704			
7. 0	46. 30	6. 32	·1011	19. 15	·00798			
7. 15	45. 35	7. 14	·1006	23. 59	·00899			
7. 45	46. 0	7. 25	·1007					
8. 17	42. 25	7. 55	·0996					
8. 45	45. 0	8. 41	·1005					
9. 53	44. 10	8. 50	·1000					
11. 39	44. 30	10. 20	·1013					
13. 1	43. 10	12. 23	·1003					
13. 22	44. 55	13. 5	·1016					
14. 2	43. 10		***					
14. 29	44. 30	13. 45	·1010					
14. 46	43. 10	14. 20	·1009					
15. 12	43. 15							
15. 40	44. 30	16. 50	·1014					
	***	17. 27	·1021					
16. 29	44. 45	18. 40	·1020					
17. 5	46. 30	19. 25	·1023					
20. 5	45. 10	19. 57	·1020					
20. 30	46. 30	21. 25	·1018					
	***	21. 32	·1017					
22. 2	47. 35	21. 40	·1021					
22. 46	46. 50		***					
23. 59	48. 30	23. 59	·1011					
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	21. 48. 30	0. 10	·1013	0. 3	·00871	1. 40	46 ·0	47 ·0
1. 0	48. 30	2. 30	·1008	1. 0	·00860	3. 40	47 ·5	48 ·5
3. 5	49. 0	3. 44	·1005	2. 28:	·00786	9. 40	45 ·5	46 ·0
4. 0	46. 5	5. 8	·1004	4. 18	·00586	23. 0	38 ·0	39 ·0
5. 12	45. 0	5. 20	·1007	5. 35	·00425			
9. 20	46. 25	5. 35	·1006	7. 15:	·00377			
9. 45	41. 0	5. 50	·1003	11. 5	·00526			
10. 20	45. 10	6. 30	·1008	15. 20	·00847			
10. 40	44. 0	6. 50	·1012	18. 0	·01070			
11. 7	43. 50	9. 15	·1015	18. 52	·01216			
	***	9. 25	·1011	23. 30	·01221			
11. 55	46. 0	10. 5	·1020					
12. 13	45. 0	11. 20	·1016					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 8		Dec. 8				h m	o	c
h m	° ′ ″	h m		h m				
	***	12. 55	·1021					
13. 40	21. 46. 35	13. 6	·1019					
14. 18	46. 15	14. 0	·1023					
14. 43	47. 10	14. 17	·1021					
	***	17. 10	·1031					
16. 31	47. 5	17. 44	·1029					
18. 3	47. 40	18. 30	·1031					
21. 1	46. 30	21. 40	·1031					
22. 45	48. 5	22. 45	·1033					
23. 59	48. 0	23. 40	·1031					
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 0	21. 48. 0	1. 0	·1034	0. 0	·01220	9. 38	39 ·0	40 ·0
1. 20	48. 35	4. 25	·1036	1. 35	·01231	21. 40	40 ·0	41 ·0
4. 0	46. 30	8. 43	·1036	4. 0	·01269			
9. 44	46. 30		***	7. 58	·01190			
9. 59	47. 25	12. 25	·1021	14. 20	·01097			
10. 46	44. 20	12. 50	·1031	15. 20	·01101			
11. 2	44. 45		***	17. 2	·01084			
11. 29	43. 35	14. 0	·1029	20. 15	·01028			
11. 55	47. 50	17. 50	·1036	23. 59	·00927			
12. 5	46. 0	20. 30	·1032					
12. 15	49. 30	20. 50	·1027					
12. 39	45. 40	21. 20	·1037					
12. 52	46. 35		(†)					
13. 10	44. 45	23. 59	·1019					
13. 29	45. 30							
13. 43	45. 0							
13. 55	46. 0							
14. 21	45. 30							
15. 0	47. 0							
15. 15	46. 5							
21. 40	46. 30							
23. 45	49. 10							
23. 59	49. 0							
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
0. 0	21. 49. 0	0. 0	·1017	1. 35	·00850	1. 40	43 ·0	44 ·0
1. 32	49. 0	1. 42	·1014	4. 35	·00447	3. 40	45 ·0	46 ·0
3. 18	46. 35	3. 14	·1011	6. 0	·00483	9. 40	46 ·0	47 ·5
6. 10	45. 25	3. 20	·1015	12. 50	·00473	21. 40	41 ·0	43 ·0
8. 31	49. 0	3. 45	·1014	14. 15	·00528			
	***	4. 22	·1019	16. 45	·00620			
9. 46	44. 10	4. 37	·1014	22. 20	·00918			
	***	7. 49	·1013	23. 59	·00991			
12. 30	46. 25	8. 18	·1016					
14. 7	46. 15	10. 45	·1015					
14. 30	47. 35	10. 59	·1018					
14. 52	46. 25	11. 25	·1015					
15. 10	47. 0	11. 42	·1018					
18. 32	47. 20	11. 56	·1016					
21. 13	46. 30	13. 45	·1019					
22. 26	47. 35	14. 19	·1021					
22. 45	47. 0	14. 30	·1018					
23. 15	48. 35	14. 52	·1022					
23. 55	48. 35	18. 50	·1030					
		20. 25	·1028					
		20. 41	·1026					
		21. 10	·1028					
		21. 35	·1028					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
h m	° ′ ″	Dec. 10 h m		h m		h m	°	°
		22. 1	·1024					
		22. 25	·1026					
		22. 42	·1022					
		22. 50	·1028					
		23. 15	·1026					
		23. 55	·1032					
Dec. 11		Dec. 11		Dec. 11		Dec. 11		
0. 5	21. 49. 25	0. 4	·1032	0. 20	·01003	1. 40	42 ·0	43 ·5
1. 10	49. 30	2. 0	·1018	1. 30	·01047	3. 40	44 ·0	44 ·0
1. 35	50. 0	3. 18	·1018	3. 5	·00986	9. 40	45 ·0	46 ·0
1. 59	49. 0	3. 26	·1020	5. 0	·00828	21. 40	40 ·0	42 ·0
3. 48	46. 55	3. 47	·1017	6. 30	·00724			
8. 45	44. 30	4. 5	·1019	10. 0	·00563			
11. 55	46. 25	4. 13	·1016	12. 0	·00520			
17. 30	48. 0	4. 33	·1016	13. 45	·00540			
19. 15	47. 0	4. 40	·1014	15. 34	·00568			
19. 45	48. 30	6. 0	·1015	19. 30	·00830			
22. 10	48. 30		***	21. 5	·00921			
23. 25	49. 25	9. 10	·1019	23. 30	·01126			
			***					
		14. 30	·1027					
		18. 25	·1036					
		19. 48	·1027					
		20. 20	·1031					
		22. 5	·1021					
		22. 20	·1014					
		23. 27	·1010					
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
0. 0	21. 50. 15	0. 0	·1007	0. 0	·01116	1. 40	42 ·0	43 ·0
0. 30	50. 30	2. 52	·1006	1. 50	·01170	3. 40	45 ·0	45 ·2
1. 0	51. 35	3. 45	·0991	2. 45	·01044	9. 40	46 ·0	47 ·0
1. 44	49. 15	4. 25	·0996	4. 30	·00780	21. 40	37 ·0	38 ·0
2. 47	49. 30	5. 20	·0993	7. 2	·00483			
3. 7	50. 35	5. 30	·0997		·00519			
3. 21	50. 0	6. 13	·0995	9. 20	·00463			
3. 29	50. 35	6. 42	·0996	10. 45	·00506			
4. 29	47. 35	7. 15	·0992	13. 10	·00621			
6. 16	46. 45	7. 30	·0997	15. 48	·00870			
7. 0	44. 55	7. 51	·0997	17. 22	·01051			
7. 23	42. 10	8. 0	·1000	19. 14	·01223			
8. 22	44. 30	8. 17	·0999	19. 18	·01193			
8. 45	44. 25	8. 28	·1002	22. 30	·01198			
9. 2	42. 10	8. 55	·1000	23. 15	·01238			
9. 15	43. 25	9. 7	·1012					
9. 23	43. 0	9. 17	·1006					
9. 35	44. 0	9. 53	·1002					
9. 59	42. 25	10. 33	·1010					
11. 8	46. 25	11. 35	·1011					
13. 25	45. 30	12. 35	·1011					
13. 34	47. 10	12. 57	·1005					
14. 3	47. 25	13. 13	·1012					
14. 15	46. 0	13. 26	·1013					
	***	13. 35	·1008					
15. 29	47. 30	13. 55	·1015					
16. 0	47. 5	14. 5	·1013					
16. 29	48. 30	14. 17	·1016					
21. 39	48. 45	19. 48	·1034					
22. 5	48. 5	20. 5	·1031					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
Dec. 12		Dec. 12						
22. 30	21. 48. 55	21. 4	·1033					
23. 59	48. 15	23. 0	·1024					
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 0	21. 48. 15	0. 0	·1016	0. 0	·01259	1. 40	38 ·0	40 ·0
0. 30	49. 10	2. 20	·1023	1. 20	·01290	3. 40	41 ·0	41 ·0
4. 0	45. 0	3. 45	·1018	2. 30	·01258	9. 40	42 ·0	43 ·0
6. 10	45. 0	3. 58	·1020	7. 10	·00702	21. 40	34 ·0	35 ·5
6. 34	44. 30	5. 45	·1014	8. 30	·00580			
7. 16	45. 25	6. 25	·1015	9. 33	·00496			
9. 0	45. 0	6. 30	·1012	11. 0	·00426			
9. 15	40. 0	7. 7	·1014	14. 30	·00590			
9. 34	42. 30	9. 10	·1014	15. 25	·00[illegible]			
9. 58	40. 30	9. 20	·1023	17. 4	·00[illegible]			
10. 50	44. 35	9. 39	·1016	20. 30	·01[illegible]			
11. 16	44. 10	9. 50	·1021	20. 35	·01027			
11. 52	46. 0	10. 18	·1015	22. 6	·01065			
16. 10	47. 0	10. 42	·1021	23. 30	·01[illegible]			
17. 44	48. 0	12. 0	·1019					
18. 17	46. 55	16. 32	·1033					
20. 29	46. 25	20. 42	·1036					
23. 59	48. 30	23. 30	·1018					
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
0. 0	21. 48. 30	0. 0	·1018	0. 0	·01070	1. 40	42 ·0	43 ·0
1. 10	49. 15	1. 30	·1009	1. 0	·00996	3. 40	44 ·0	45 ·0
4. 0	45. 30	3. 8	·1017	2. 15	·00778	9. 40	45 ·0	46 ·0
6. 35	45. 30	3. 40	·1010	3. 45	·00538	21. 40	39 ·0	41 ·0
9. 9	45. 0	5. 5	·1014	3. 59	·00[illegible]			
13. 31	45. 25	6. 15	·1012	4. 10	·00530			
13. 41	46. 30	8. 40	·1007	5. 12	·00547			
13. 54	46. 25	11. 35	·1008	7. 0	·00550			
14. 10	44. 55	13. 30	·1018	8. 5	·00[illegible]			
14. 25	45. 10	13. 57	·1017	10. 45	·00495			
14. 43	44. 25	14. 15	·1011	13. 45	·00623			
16. 20	46. 0	14. 43	·1010	14. 15	·00602			
20. 16	46. 25	16. 25	·1012	16. 22	·00624			
21. 5	48. 0	16. 33	·1008	18. 45	·00618			
23. 59	48. 40	19. 30	·1010	19. 30	·00590			
		23. 25	·1012	23. 18	·00553			
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
0. 0	21. 48. 40	0. 0	·1008	0. 45	·00663	1. 40	51 ·0	[illegible]
0. 40	49. 0	2. 0	·1008	3. 44	·00[illegible]	3. 40	[illegible]	[illegible]
4. 25	45. 35	3. 25	·1010		·00[illegible]	9. 40	52 ·0	53 ·0
6. 11	45. 25	4. 10	·1002	5. 47	·00750	23. 28	47 ·0	48 ·0
6. 44	44. 35	7. 0	·1004	9. 20	·00753			
10. 15	45. 0	9. 5	·1007	10. 15	·00756			
11. 23	45. 55	11. 59	·1007	12. 20	·00887			
12. 15	45. 30	12. 20	·1003	15. 10	·01042			
12. 42	47. 0	12. 50	·1008	17. 0	·01153			
13. 23	44. 50	13. 33	·1006	20. 55	·01339			
15. 2	46. 10	14. 50	·1007	23. 0	·01487			
15. 35	45. 15	19. 6	·1015	23. 42	·01476			
16. 0	46. 30	20. 50	·1014					
18. 55	45. 35	23. 45	·1014					
22. 25	48. 30							
22. 53	48. 10							
23. 59	48. 50							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 50	0. 0	·1012	0. 0	·01486	9. 37	45 ·0	46 ·5
1. 20	49. 0	1. 12	·1014	1. 8	·01485	21. 40	45 ·0	47 ·0
3. 44	46. 30	3. 25	·1010	3. 45	·01490			
6. 45	46. 0	5. 0	·1009	4. 24	·01480			
7. 19	45. 20	5. 55	·1010	5. 38	·01483			
10. 35	45. 35	7. 36	·1017	8. 45	·01490			
17. 0	46. 10	10. 15	·1013	9. 20	·01492			
17. 16	47. 35	10. 30	·1016	10. 15	·01510			
17. 45	46. 0	11. 13	·1011	11. 0	·01506			
18. 29	47. 0	14. 30	·1011	14. 33	·01476			
19. 19	45. 25	14. 40	·1014	15. 50	·01470			
20. 5	46. 5	17. 20	·1013	17. 35	·01463			
21. 47	50. 10	17. 57	·1018	18. 30	·01470			
22. 31	50. 20	18. 30	·1016	21. 40	·01470			
23. 0	53. 30	18. 50	·1020	23. 12	·01446			
23. 31	51. 10	22. 0	·1014	23. 59	·01443			
23. 46	51. 0	22. 35	·0991					
		23. 3	·1005					
		23. 48	·1007					
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
0. 9	21. 50. 30	0. 30	·1007	0. 15	·01450	1. 40	46 ·0	47 ·0
0. 30	50. 35	1. 0	·1009	1. 5	·01476	3. 40	48 ·0	48 ·5
0. 37	49. 35	1. 18	·1005	3. 0	·01447	9. 40	48 ·0	49 ·0
0. 59	50. 30	1. 30	·1012	3. 10	·01402	21. 40	44 ·3	46 ·0
1. 26	49. 30	3. 6	·1003	5. 0	·01312			
2. 13	50. 35	3. 56	·0987	6. 0	·01260			
2. 30	49. 20	4. 25	·0998	6. 55	·01233			
3. 11	50. 40	4. 36	·0995	8. 15	·01186			
3. 20	48. 15	4. 46	·1000	13. 45	·01180			
3. 50	49. 0	5. 0	·0995	14. 35	·01168			
4. 44	47. 15	5. 10	·0995	14. 49	·01206			
5. 20	51. 0	5. 25	·0986	15. 30	·01210			
5. 40	46. 35	5. 36	·0988	22. 37	{ ·01450			
	***	5. 57	·0980		{ ·01421			
7. 30	46. 0	6. 25	·0973	23. 44	·01462			
7. 57	41. 15	6. 48	·0986					
8. 15	41. 25		***					
8. 45	38. 40	7. 47	·0990					
9. 5	38. 20	7. 56	·0993					
9. 15	42. 30	8. 20	·0980					
9. 36	44. 15	8. 35	·0981					
10. 13	44. 35	9. 3	·0994					
10. 34	46. 0	9. 35	·0995					
10. 45	45. 20	10. 24	·1004					
11. 12	47. 35	10. 44	·1000					
11. 47	46. 0	10. 57	·1004					
12. 5	47. 10	11. 30	·1002					
12. 44	46. 40	13. 27	·0998					
12. 50	45. 30	13. 45	·1011					
13. 29	44. 45	14. 17	·1011					
14. 0	51. 10	14. 43	·0997					
14. 40	42. 15	15. 7	·1018					
15. 5	49. 40	15. 28	·1015					
15. 46	43. 30	16. 2	·1004					
16. 46	46. 25		* *					
	***	17. 25	·1011					
17. 46	45. 55	18. 0	·1011					
18. 0	43. 0	18. 6	·1014					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 17		Dec. 17						
h m	° ′ ″	h m		h m		h m	°	°
18. 15	21. 44. 50		***					
18. 35	43. 30	19. 30	·1013					
18. 50	45. 40	20. 0	·1014					
	***	20. 8	·1016					
20. 22	47. 0		***					
21. 0	46. 35	20. 50	·1010					
22. 46	49. 30		***					
	***	22. 15	·1008					
23. 44	48. 30	23. 45	·0998					
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
0. 0	21. 49. 0	0. 15	·0998	0. 0	·01450	1. 40	47 ·0	47 ·5
1. 23	50. 10	1. 18	·0992	1. 0	·01452	3. 40	49 ·0	49 ·0
2. 29	44. 20	1. 42	·0984	2. 5	·01393	9. 40	47 ·0	48 ·0
3. 21:	46. 25	4. 5	·0995	4. 15	·01120	21. 40	36 ·0	37 ·0
4. 10	48. 0	4. 55	·0985	4. 45:	·01037			
5. 17	45. 5	5. 5	·0991	5. 15	·00988			
5. 32	46. 40	6. 40	·0992	7. 10	·00870			
7. 20	44. 35	7. 33	·0990	8. 5	·00864			
7. 55	43. 20	7. 43	·0993	10. 10	·00985			
8. 15	40. 15	8. 15	·0982	11. 5	·01050			
8. 44	37. 25	8. 39	·0989	14. 41	·01378			
9. 10	41. 30	8. 47	·0989	14. 45	·01342			
9. 22	40. 30	8. 56	·0993	18. 15	·01290			
10. 14	45. 30	9. 3	·0991	20. 10	·01259			
10. 57	45. 40	9. 17	·0994	22. 30	·01250			
11. 20	50. 30	9. 40	·0991	23. 15	·01275			
11. 54	45. 0	9. 56	·0993					
12. 15	46. 40	10. 10	·0991					
12. 34	46. 0	10. 18	·0993					
12. 46	46. 40	10. 42	·0992					
13. 16	46. 0	11. 7	·1014					
13. 30	47. 15	13. 17	·1004					
14. 0	45. 25	13. 50	·1017					
14. 14	47. 30	14. 28	·1010					
14. 25	47. 30	16. 20	·1021					
14. 55:	44. 30	18. 10	·1016					
16. 14	47. 50	18. 55	·1020					
19. 24	47. 50	19. 39	·1018					
20. 1	48. 25	21. 42	·1023					
21. 0	48. 0	23. 15	·1020					
21. 45	49. 0							
22. 43	49. 10							
23. 8	48. 15							
23. 59	50. 0							
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 0	21. 50. 0	1. 40	·1012*	0. 0	·01262	1. 40	39 ·0	40 ·0
0. 30	51. 0		(†)	1. 30:	·01293	3. 40	41 ·0	42 ·0
0. 53	49. 30	2. 10	·1010	2. 30	·01230	9. 40	41 ·0	42 ·0
1. 15	49. 55	3. 16	·1009	4. 0	·01019	21. 40	33 ·0	34 ·0
1. 40	49. 10	3. 48	·1002	5. 40	·00731			
	(†)	4. 25	·1006	6. 50	·00628			
4. 45	44. 20	4. 42	·1003	8. 10	·00578			
6. 30	44. 0	5. 12	·1005	9. 5	·00568			
6. 53:	43. 0	5. 28	·1000	14. 20	·00827			
7. 29	44. 0	6. 25	·0998	16. 16	·00988			
8. 22	44. 30	6. 42	·0994	17. 45	·01149			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 19 h m	° ′ ″	Dec. 19 h m		Dec. 19 h m		h m	°	°
9. 0	21. 37. 0	6. 50	·0998	18. 35	{·01268 ·01233			
9. 41	42. 30	8. 7	·0995					
9. 58	43. 0	8. 25	·0990	22. 6	·01260			
10. 14	44. 30	8. 40	·0995	23. 59	·01310			
12. 30	46. 50	8. 50	·0993					
14. 35	47. 50	9. 6	·0994					
14. 59	48. 35	9. 19	·0989					
15. 30:	47. 0	10. 0	·1004					
16. 9	48. 0	11. 7	·1006					
17. 11	46. 55	11. 28	·1008					
17. 44	48. 0	15. 35	·1019					
17. 58	46. 50	16. 11	·1014					
18. 13	47. 35	16. 40	·1019					
20. 44	46. 25	17. 26	·1019					
21. 26	48. 25	19. 30	·1019					
22. 10	47. 40	20. 47	·1024					
23. 25	48. 40	21. 41	·1021 ***					
		23. 28	·1011					
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
1. 40	21. 49. 37*	1. 40	·1006*	0. 20	·01351	1. 40	36 ·0	37 ·0
3. 40	46. 22*	3. 40	·0993*	0. 55	·01344	3. 40	39 ·8	41 ·0
	(†)		(†)	1. 25	·01308	9. 40	40 ·0	41 ·0
4. 1	45. 0	5. 0	·1003	2. 35	·01177	21. 40	31 ·0	33 ·0
6. 44	43. 0	6. 30	·0994	4. 5	·00842			
7. 45	44. 30	9. 35	·1005	5. 31	·00510			
9. 0	44. 0	10. 0	·1019	6. 33	·00526			
9. 30	44. 40	14. 30	·1026	9. 5	·00474			
10. 15	44. 5	15. 15	·1027	11. 10	·00497			
10. 40	45. 5	16. 35	·1032	14. 15	·00668			
14. 0	46. 30	19. 7	·1036	17. 20	·00937			
18. 31	46. 30	20. 25	·1040	20. 28	·01288			
22. 30	44. 50	20. 45	·1037	20. 31	·01244			
23. 30	45. 0	22. 6	·1038	22. 33	·01230			
		22. 20	·1034	23. 30	·01276			
		23. 35	·1029					
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
1. 40	21. 48. 7*	1. 40	·1020*	0. 0	·01290	1. 40	34 ·0	35 ·5
3. 40	46. 35*	3. 40	·1022*	1. 0	·01311	3. 40	37 ·0	37 ·5
	(†)		(†)	1. 39:	·01304	9. 40	38 ·5	39 ·0
6. 45	44. 0	4. 0	·1025	3. 5	·01183	21. 40	32 ·0	33 ·0
9. 46	44. 25	4. 45	·1019	4. 30	·01102			
12. 35	45. 40	7. 30	·1017	6. 45	·00722			
13. 1	45. 10	9. 32	·1022	8. 30:	·00553			
15. 0	47. 0	12. 0	·1026	9. 50	·00504			
17. 5	45. 5	13. 42	·1031	12. 25	·00543			
18. 0	46. 40	14. 0	·1035	15. 0	·00728			
18. 54	44. 55	14. 47	·1036	17. 25	·00926			
21. 43	45. 0	16. 27	·1042	20. 0	·01102			
23. 59	47. 0	17. 35	·1042	21. 25	·01168			
		18. 45	·1048	22. 32	·01170			
		21. 18	·1041	23. 59	·01187			
		21. 26	·1043					
		22. 20	·1037					
		22. 30	·1040					
		23. 5	·1038					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 22 h m	° ′ ″	Dec. 22 h m		Dec. 22 h m		Dec. 22 h m	°	°
0. 0	21. 47. 0	1. 40	·1022*	0. 47	·01210	1. 40	35 ·0	37 ·0
1. 40	46. 28*	3. 40	·1022*	1. 12	·01195	3. 40	37 ·0	37 ·0
3. 40	44. 24*		(†)	3. 35	·00942	9. 40	36 ·0	37 ·5
	(†)	5. 15	·1019	4. 10	·00859	23. 15	39 ·0	40 ·5
4. 30	42. 30	7. 3	·1013	6. 50:	·00643			
6. 29	41. 30	7. 32	·1017	7. 52	·00623			
6. 35	43. 30	7. 48	·1015	9. 15	·00634			
6. 46	41. 40	8. 12	·1017	14. 3	·00886			
7. 31	43. 45	8. 32	·1015	18. 45	·00894			
7. 52	43. 5	9. 5	·1021	19. 40:	·00853			
8. 29	44. 30	10. 0	·1019	21. 17	·00690			
10. 4	44. 20	11. 12	·1025	22. 46	·00503			
10. 16	44. 55	13. 20	·1031	23. 43	·00538			
14. 8	43. 30	16. 25	·1037					
16. 10	44. 0	18. 25	·1031					
17. 0	43. 0	20. 25	·1037					
17. 35	43. 35	22. 12	·1025					
17. 56	42. 0	23. 10	·1026					
19. 10	46. 0	23. 45	·1023					
20. 59	45. 0							
23. 20	45. 30							
23. 55	46. 50							
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
	(†)		(†)	0. 5	·00650	9. 0	45 ·0	46 ·5
1. 35	21. 50. 25	1. 25	·1034	3. 10	·00640	21. 40	45 ·0	46 ·0
3. 16	47. 20	3. 10	·1023	6. 19	·00644			
6. 55	46. 30	5. 30	·1026	11. 13	·00667			
7. 30	46. 50		***	14. 32	·00630			
8. 0	44. 30	7. 40	·1024	16. 45	·00661			
8. 44	46. 0	7. 55	·1020	17. 45	·00697			
9. 41	43. 50	8. 25	·1023	18. 50	·00715			
10. 26	44. 0	8. 43	·1022	19. 52	·00752			
11. 0	46. 0	8. 56	·1024	23. 45	·00890			
11. 31	42. 0	10. 50	·1017	23. 59	·00916			
11. 51	46. 35	10. 57	·1024					
12. 9	45. 0	11. 4	·1021					
12. 30	46. 40	11. 15	·1035					
13. 13	45. 50	11. 33	·1023					
15. 15	47. 0	11. 48	·1037					
15. 40	49. 15	12. 22	·1022					
16. 49	45. 30	12. 43	·1018					
17. 23	45. 30	13. 15	·1016					
17. 42	47. 15	13. 28	·1018					
17. 46	45. 40 ***	13. 40	·1016					
		15. 0	·1014					
18. 31	47. 0	15. 25	·1010					
19. 0	45. 35	16. 15	·1016					
21. 0	45. 30	17. 40	·1016					
23. 59	48. 30	18. 0	·1018					
		18. 14	·1017					
		18. 30	·1020					
		18. 40	·1017					
		19. 5	·1020					
		21. 45	·1019					
		23. 10	·1012					
		23. 44	·1006					
		23. 59	·1004					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 35	0. 0	·1004	1. 31	·00826	1. 40	48 ·0	49 ·5
1. 10	49. 25	3. 30	·0996	2. 10	·00760	3. 40	51 ·0	52 ·0
4. 0	47. 0	4. 45	·1002	2. 35	{·00743	9. 40	50 ·0	51 ·0
6. 30	45. 30	7. 15	·1002		{·00817	23. 33	46 ·0	47 ·0
10. 0	44. 40	11. 55	·1007	3. 18	{·00774			
10. 30	44. 40	12. 10	·1018		{·01059			
10. 44	43. 35	13. 0	·1010	4. 45	·00812			
11. 14	45. 20	14. 50	·1011	5. 35	·00759			
11. 59	45. 35	15. 11	·1010	6. 37	·00731			
12. 8	44. 20	18. 0	·1019	8. 40	·00710			
12. 38	45. 30	18. 42	·1022	10. 41	·00743			
13. 0	45. 0	18. 57	·1019	17. 35	·01236			
14. 46	47. 20	19. 12	·1022	20. 0	·01325			
	***	19. 40	·1020	23. 59	·01320			
17. 28	46. 45							
17. 45	47. 30	21. 55	·1018					
19. 10	48. 20	22. 25	·1014					
21. 35	45. 30		***					
22. 30	47. 35	23. 36	·1018					
23. 28	47. 30	23. 59	·1016					
23. 59	49. 5							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	21. 49. 15	0. 0	·1017	0. 33	·01320	9. 30	48 ·2	49 ·0
1. 16	51. 25	1. 50	·1018	1. 18	·01307	21. 45	47 ·5	49 ·0
2. 45	49. 20	3. 20	·1016	4. 15	·01230			
3. 31	49. 25	3. 50	·1010	6. 30	·01109			
3. 58	47. 5	3. 58	·1012	10. 0	·01011			
4. 30	47. 30	4. 8	·1009	14. 15	·00951			
5. 5:	48. 40	4. 43	·1012	18. 0	·01131			
5. 45	44. 30	5. 3	·1010	19. 45	·01210			
5. 55	45. 0	6. 50	·1017	22. 48	·01195			
6. 5	43. 55	7. 20	·1011	23. 59	·01158			
	***	7. 47	·1010					
6. 45	45. 0	8. 0	·1014					
7. 34	46. 0	8. 42	·1008					
7. 59	43. 35	8. 53	·1013					
8. 40	44. 35	9. 15	·1010					
8. 50	43. 30	10. 18	·1013					
9. 0	44. 55	11. 19	·1012					
9. 45	44. 25	11. 30	·1023					
10. 37	45. 20	11. 45	·1017					
11. 30	44. 5	12. 15	·1014					
11. 41	45. 40	12. 30	·1017					
	***	13. 18	·1015					
13. 52	47. 30	14. 5	·1016					
14. 42	46. 30	18. 32	·1020					
21. 0	45. 30	19. 48	·1024					
	***	20. 13	·1024					
21. 9	46. 0	20. 20	·1022					
21. 59	48. 5	20. 28	·1025					
		20. 35	·1023					
		20. 45	·1026					
		21. 35	·1026					
		23. 59	·1011					
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
0. 10	21. 46. 0	0. 0	·1011	0. 15	·01139	1. 40	50 ·0	50 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
h m	° ′ ″	h m		h m		h m	°	°
1. 9	21. 46. 45	4. 0	·1008	3. 45	·00918	3. 40	51 ·7	52 ·0
3. 0	44. 30	4. 27	·1011	5. 12	·00792	9. 40	52 ·0	53 ·0
8. 25	44. 5	4. 55	·1005	5. 48	{·00766	21. 40	50 ·0	51 ·0
8. 45	43. 5	6. 30	·1010		{·00800			
9. 25	44. 0	16. 0	·1014	9. 0	·00770			
13. 16	44. 20	20. 0	·1018	14. 10	·00784			
13. 29	45. 5	22. 55	·1010	14 35	·00779			
14. 0	44. 30	23. 12	·1014	17. 50	·00830			
14. 30	45. 0			19. 20	·00843			
19. 0	44. 25			20. 0	·00865			
21. 13	44. 5			21. 58	{·00803			
22. 30	44. 45				{·00870			
	(†)			23. 14	·00794			
		Dec. 27		Dec. 27		Dec. 27		
		0. 0	·1017	0. 0	·00760	1. 40	52 ·0	53 ·1
		0. 47	·1016	0. 58	{·00741	3. 40	54 ·0	55 ·0
		0. 55	·1012		{·00775	9. 40	54 ·5	55 ·0
		1. 11	·1013	4. 10	·00808	21. 40	49 ·5	50 ·5
		1. 18	·1011	5. 5	·00787			
		1. 27	·1011	6. 15	·00812			
		2. 13	·0987	7. 50	·00768			
			***	11. 0	·00794			
		3. 32	·1004	12. 18	·00812			
		3. 42	·0996	17. 10	·01160			
		4. 19	·1006	18. 38	·01267			
		4. 55	·1001	20. 0	·01338			
		7. 16	·1006	21. 15	·01400			
		7. 32	·1001	22. 16	·01458			
		8. 0	·1002	23. 59	·01506			
			***					
		9. 50	·0994					
			***					
		11. 47	·0998					
		12. 15	·1006					
		13. 12	·1004					
		19. 45	·1017					
		20. 55	·1016					
		21. 33	·1010					
		23. 59	·1002					
		Dec. 28		Dec. 28		Dec. 28		
		0. 0	·1002	1. 19	·01443	1. 40	51 ·1	52 ·0
		1. 5	·1001	3. 45	·01128	3. 40	53 ·0	53 ·0
		1. 56	·1008	5. 5	·00920	9. 40	55 ·0	56 ·5
		2. 40	·0998	6. 4	{·00791	21. 40	50 ·0	51 ·0
		4. 0	·1001		{·00832			
		4. 37	·0998	7. 57	·00808			
		8. 0	·0996	14. 35	·00754			
		8. 17	·0989	15. 15	·00770			
		8. 46	·0998	19. 52	·01006			
		10. 35	·0997	22. 50	·01225			
		10. 50	·1009	23. 29	{·01247			
		11. 5	·1001		{·01226			
		12. 32	·0997	23. 59	·01224			
		12. 48	·1001					
		14. 33	·0998					
		17. 20	·1009					
		20. 20	·1015					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

December 26. After $22^h.\ 30^m.$ the Declination Magnet was under adjustment for the remaining days of the year.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Dec. 28 h m		′ ″		h m	°	°
		21. 40	·1000					
		23. 59	·1000					
		Dec. 29		Dec. 29		Dec. 29		
		0. 0	·1001	1. 0	·01220	1. 40	52	·0 53 ·0
		3. 32	·1002	2. 49	·01091	3. 40	54	·0 54 ·0
		3. 47	·0996		·00830	9. 40	53	·0 53 ·5
		4. 5	·1000	5. 40	·00761	23. 0	49	·0 50 ·0
		8. 20	·1005	6. 11	·00749			
		8. 47	·1001	7. 5	·00734			
		9. 10	·1004	8. 0	·00757			
		9. 45	·0998	10. 0	·00820			
		10. 0	·1004	11. 35	·00834			
		10. 12	·0997	13. 45	·00850			
		10. 40	·1002	14. 40	·00826			
		12. 0	·1005	16. 35	·00836			
		12. 22	·1010	19. 15	·00935			
		13. 16	·1004	21. 5	·01030			
		13. 32	·1018	23. 29	·01213			
		14. 8	·1022					
		14. 16	·1012					
		15. 6	·1008					
		15. 15	·1000					
		15. 45	·1006					
		15. 55	·1000					
		16. 17	·1011					
		16. 20	·1007					
		16. 30	·1010					
		17. 27	·1002					
		17. 54	·1004					
		18. 25	·1015					
		18. 40	·1014					
		18. 44	·1015					
		18. 50	·1008					
		18. 59	·1020 ***					
		20. 17	·1012					
		20. 42	·1013 ***					
		21. 45	·1008					
		22. 55	·1010					
		23. 31	·1005					
		Dec. 30		Dec. 30		Dec. 30		
		0. 0	·0997	0. 0	·01247	8. 50	48	·0 49 ·5
		0. 28	·0989	3. 12	·01405	21. 40	44	·5 46 ·0
				3. 35	·01382			
		1. 10	·0989	3. 45	·01380			
		1. 22	·0978	7. 0	·01287			
		1. 35	·0988	8. 10	·01302			
		2. 12	·0989	9. 45	·01410			
		2. 14	·0976	11. 30	·01500			
		2. 37	·0997	12. 0	·01507			
		2. 55	·0986	13. 20	·01492			
		3. 6	·1004	15. 20	·01464			
		3. 30	·1001	21. 10	·01467			
		3. 35	·1004	23. 59	·01487			

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h m	° ′ ″	Dec. 30 h m		h m		h m	°	°
		3. 45	·1002					
		3. 55	·1003					
		4. 13	·0980					
		4. 26	·0979					
		4. 33	·0971					
		5. 8	·0972					
		5. 13	·0986					
		5. 26	·0989					
		5. 43	·0991					
		5. 55	·1002					
		6. 42	·1002					
		7. 6	·1006					
		7. 26	·0999					
		7. 45	·1004					
		8. 16	·1004					
		8. 47	·0996					
		9. 38	·1004					
		9. 45	·1001					
		9. 56	·1006					
		10. 10	·1009					
		11. 15	·1003					
		12. 8	·1000					
		13. 11	·1008					
		13. 38	·1002					
		13. 48	·1010					
		14. 25	·1004					
		14. 48	·1012					
		15. 25	·1010					
		17. 27	·1016					
		17. 33	·1012					
		17. 50	·1020					
		18. 30	·1013					
		19. 17	·1016					
		19. 52	·1022					
		21. 45	·1011					
		22. 22	·0997					
		22. 53	·1002					
		23. 3	·0994					
		23. 59	·1002					
		Dec. 31		Dec. 31		Dec. 31		
		1. 40	·1002*	2. 5	·00951	1. 40	50	·0 51 ·0
		3. 40	·1000*	3. 15	·00792	3. 40	49	·5 51 ·0
		9. 40	·1010*	3. 29	·00784	9. 40	50	·0 50 ·5
		21. 40	·1010*		·00858	21. 40	43	·5 45 ·0
				4. 26	·00851			
					·00898			
				4. 47	·00861			
					·00908			
				7. 15	·00765			
				8. 55	·00768			
				11. 30	·00870			
				15. 22	·01225			
				17. 40	·01430			
				19. 30	·01512			
				20. 18	·01539			
				23. 31	·01529			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1855.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 1 was used throughout the Year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1855.

Day and Approximate Hour, 1855.		Magnetic Dip.	Day and Approximate Hour, 1855.		Magnetic Dip.	Day and Approximate Hour, 1855.		Magnetic Dip.
	d h	° ′		d h	′		d h	′
January	0. 21	68. 36 ·50	May	6. 21	68. 43 ·75	September	2. 21	68. 45 ·25
	1. 3	68. 37 ·25		7. 3	68. 45 ·50		3. 3	68. 43 ·25
	7. 21	68. 41 ·75		13. 21	68. 46 ·25		9. 21	68. 44 ·50
	8. 3	68. 48 ·75		14. 3	68. 49 ·00		10. 3	68. 44 ·00
	14. 21	68. 43 ·75		20. 21	68. 45 ·50		16. 21	68. 36 ·50
	15. 3	68. 43 ·25		21. 3	68. 45 ·50		17. 21	68. 43 ·25
	21. 21	68. 48 ·75		27. 21	68. 45 ·00		18. 3	68. 41 ·75
	22. 3	68. 47 ·50		28. 3	68. 46 ·25		23. 21	68. 40 ·25
	28. 21	68. 42 ·50					24. 3	68. 40 ·75
	29. 3	68. 43 ·00	June	3. 21	68. 45 ·00		30. 21	68. 44 ·25
February	4. 21	68. 45 ·50		4. 3	68. 45 ·00			
	5. 3	68. 46 ·75		10. 21	68. 45 ·50	October	1. 3	68. 42 ·00
	11. 21	68. 46 ·50		11. 3	68. 44 ·25		7. 21	68. 40 ·25
	12. 3	68. 47 ·50		17. 21	68. 44 ·25		8. 3	68. 44 ·50
	18. 21	68. 46 ·25		18. 3	68. 43 ·75		14. 21	68. 45 ·00
	19. 3	68. 45 ·50		24. 21	68. 42 ·75		15. 3	68. 41 ·25
	25. 21	68. 45 ·75		25. 3	68. 45 ·25			
	26. 3	68. 46 ·25				November	4. 21	68. 42 ·50
			July	1. 21	68. 45 ·50		5. 3	68. 44 ·50
March	4. 21	68. 43 ·75		2. 3	68. 47 ·00		11. 21	68. 43 ·25
	5. 3	68. 37 ·00		8. 21	68. 48 ·75		12. 3	68. 44 ·00
	11. 21	68. 46 ·25		9. 3	68. 47 ·50		25. 21	68. 44 ·50
	12. 3	68. 46 ·75		15. 21	68. 41 ·50		26. 3	68. 44 ·00
	18. 21	68. 45 ·50		22. 21	68. 47 ·00			
	19. 3	68. 48 ·75		23. 3	68. 47 ·00	December	2. 21	68. 46 ·25
	25. 21	68. 48 ·00		29. 21	68. 46 ·25		3. 3	68. 46 ·25
	26. 3	68. 46 ·75		30. 3	68. 39 ·50		9. 21	68. 46 ·50
							10. 3	68. 45 ·25
April	7. 21	68. 46 ·25	August	5. 21	68. 43 ·00		16. 21	68. 45 ·00
	8. 3	68. 48 ·75		6. 3	68. 43 ·00		17. 3	68. 45 ·00
	15. 21	68. 49 ·00		12. 21	68. 44 ·25		23. 21	68. 45 ·25
	16. 3	68. 46 ·75		13. 3	68. 45 ·75		24. 3	68. 43 ·25
	22. 21	68. 47 ·50		19. 21	68. 42 ·50		30. 21	68. 37 ·75
	23. 3	68. 46 ·25		20. 2	68. 43 ·25		31. 3	68. 46 ·50
	29. 21	68. 47 ·00		26. 21	68. 46 ·00			
	30. 3	68. 46 ·15		27. 3	68. 45 ·50			

September 16^{d}. 21^{h}. A thin misty rain was falling. The air was very damp.

MONTHLY MEANS of MAGNETIC DIPS, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1855.

1855, Month.	Mean Monthly Dip at 21^h.	Number of Observations.	1855, Month.	Mean Monthly Dip at 3^h.	Number of Observations.
	° ′			° ′	
January	68. 42 ·65	5	January	68. 43 ·95	5
February	68. 46 ·00	4	February	68. 46 ·50	4
March	68. 45 ·88	4	March	68. 44 ·81	4
April	68. 47 ·44	4	April	68. 47 ·00	4
May	68. 45 ·12	4	May	68. 46 ·56	4
June	68. 44 ·37	4	June	68. 44 ·56	4
July	68. 45 ·80	5	July	68. 45 ·25	4
August	68. 43 ·93	4	August	68. 44 ·37	4
September	68. 42 ·33	6	September	68. 42 ·43	4
October	68. 42 ·62	2	October	68. 42 ·58	3
November	68. 43 ·41	3	November	68. 44 ·16	3
December	68. 44 ·15	5	December	68. 45 ·25	5
Mean	68. 44 ·47	50	Mean	68. 44 ·78	48

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1855.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The Magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formulæ of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m\ X$ given by the vibration determines the value of X.

ABSTRACT of the OBSERVATIONS of DEFLEXION of a MAGNET for ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1855.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	s		°
February 21	Lateral	1. 0	25·0	10. 10. 17·89	5·404	100	27·3
	Axial			5. 42. 22·25			
	Lateral	1. 6		3. 3. 2·99			
	Axial			1. 34. 34·14	5·430	100	
March 19	Lateral	1. 0	49·0	10. 10. 6·65	5·440	100	51·5
	Axial			5. 41. 26·35			
	Lateral	1. 6		3. 2. 0·31			
	Axial			1. 42. 57·29	5·445	100	
April 26	Lateral	1. 0	52·2	10. 10. 53·60	5·445	100	54·3
	Axial			5. 40. 33·49			
	Lateral	1. 6		3. 1. 2·31			
	Axial			1. 32. 48·19	5·443	100	
August 14	Lateral	1. 0	66·2	9. 56. 2·05	5·535	100	70·0
	Axial			5. 31. 6·69			
	Lateral	1. 6		2. 58. 25·30			
	Axial			1. 29. 51·21	5·530	100	
September 4	Lateral	1. 0	68·8	9. 53. 30·25	5·666	102	65·8
	Axial			5. 30. 58·95			
	Lateral	1. 6		2. 59. 54·00			
	Axial			1. 30. 36·04	5·717	102	
October 26	Lateral	1. 0	45·0	10. 0. 20·95	5·540	100	51·2
	Axial			5. 36. 31·42			
	Lateral	1. 6		2. 59. 29·57			
	Axial			1. 31. 46·76	5·500	102	
November 15	Lateral	1. 0	36·8	9. 43. 18·00	5·490	102	40·3
	Axial			5. 14. 55·91			
	Lateral	1. 6		2. 57. 14·43			
	Axial			1. 30. 39·67	5·504	104	
December 3	Lateral	1. 0	34·0	9. 28. 6·00	5·600	102	36·4
	Axial			5. 6. 29·94			
	Lateral	1. 6		2. 47. 24·54			
	Axial			1. 27. 29·13	5·615	104	

September 4. The times of vibration, both before and after the observations, are evidently erroneous. The time used in the calculation is 5ˢ·527.

December 3. The great loss of magnetism in the deflecting bar as found on this day cannot be accounted for.

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1855.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a'.	Apparent Value of b'.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.
February 21	+0·18200	−0·00541	−0·00470	0·08743	0·01200	+0·18136	8·93752	5·418	0·12086	3·816	0·346
March 19	+0·18019	−0·00365		0·08257	0·01658	+0·18108	8·93685	5·445	0·11654	3·801	0·344
April 26	+0·17863	−0·00227		0·08113	0·01777	+0·18073	8·93600	5·444	0·11670	3·805	0·344
August 14	+0·17716	−0·00465		0·08180	0·01437	+0·17717	8·94736	5·533	0·10262	3·781	0·335
September 4	+0·18036	−0·00838		0·07953	0·01660	+0·17696	8·94684	5·527	0·10356	3·788	0·335
October 26	+0·17805	−0·00430		0·08574	0·00976	+0·17838	8·93031	5·520	0·10466	3·777	0·337
November 15	+0·17795	−0·00909		0·08337	0·00811	+0·17409	8·93975	5·497	0·10829	3·839	0·334
December 3	+0·16413	+0·00037		0·08331	0·00573	+0·16853	8·92565	5·608	0·09092	3·825	0·322

VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE, from OBSERVATIONS of VIBRATION of the DEFLECTING MAGNET $\frac{D}{XX}$ unaccompanied by DEFLEXION.

Month and Day, 1855.	Adopted Time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
February 1	5·403	32·0	0·12327	0·345	3·847
July 23	5·403	73·0	0·10892	0·339	3·791
August 8	5·531	68·8	0·10293	0·335	3·783
November 22	5·566	40·0	0·09745	0·329	3·809

The number of vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1855.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays, and on Good Friday and Christmas Day, on which days fewer observations have been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II. (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading, by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the highest temperature of the air, and the highest state of the wet-bulb thermometer, are mercurial thermometers invented by Messrs. Negretti and Zambra, and described in the volume for 1851; and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they are self-registering. The readings given are corrected for index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

A mean daily reading of the dry thermometer is inferred from the mean of observations taken at the same hours as the observations of the barometer, corrected by a quantity given in the *Phil. Trans.*, 1848, part I. Another mean daily reading is inferred from the mean of the maximum and minimum thermometers, also corrected by a small quantity given in the same paper. The mean daily value given in the tables is found by combining these two corrected means, giving them weights proportional to the number of observations from which they are respectively derived.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from the comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, from the year 1840 to the end of the year 1854).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·1	32	3·3	44	2·2	56	2·0	68	1·8	80	1·7
21	7·9	33	3·0	45	2·2	57	1·9	69	1·8	81	1·7
22	7·6	34	2·8	46	2·1	58	1·9	70	1·8	82	1·7
23	7·3	35	2·6	47	2·1	59	1·9	71	1·8	83	1·7
24	6·9	36	2·5	48	2·1	60	1·9	72	1·8	84	1·7
25	6·5	37	2·4	49	2·1	61	1·9	73	1·8	85	1·7
26	6·1	38	2·4	50	2·1	62	1·9	74	1·7	86	1·7
27	5·6	39	2·3	51	2·0	63	1·9	75	1·7	87	1·6
28	5·1	40	2·3	52	2·0	64	1·9	76	1·7	88	1·6
29	4·6	41	2·3	53	2·0	65	1·8	77	1·7	89	1·6
30	4·2	42	2·2	54	2·0	66	1·8	78	1·7	90	1·6
31	3·7	43	2·2	55	2·0	67	1·8	79	1·7		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. They are read at 21^h (9^h A.M.) every day; their readings are placed opposite to the day preceding the civil day on which the scales are actually read. The thermometer for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction: it is read at 9^h P.M. every evening.

The thermometer for the minimum temperature on the grass was out of order on January 21, 22, 31; February 1, 18, 19; May 10, 18; from July 22 to July 24; August 9; September 4, 5; October 27 to November 2; 19 to 22; 25 and 26.

The thermometer for the maximum temperature in the sun was out of order on May 27; July 4, 5; and August 21.

The thermometer for the maximum temperature of the water of the Thames was out of order from February 16 to May 10; and from June 8 to June 11. That for the minimum temperature was out of order from February 16 to April 2; from April 10 to May 7, and from June 8 to June 11.

The mean daily value of the difference between dew-point temperature and air-temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, or they are found from the absolute maxima and minima, as determined by comparing the observations of the self-registering wet-bulb thermometers with those of the self-registering dry-bulb thermometers.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of thirty-eight years, is found by comparison with a table of results deduced by Mr. Glaisher from thirty-eight years' observations, made at the Royal Observatory, ending 1851.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary :—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given :—

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described : thus, s s is very strong ; v v, very variable.

The Clouds and Weather are described generally by Howard's Nomenclature ; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows :—

a denotes *aurora borealis*	hl denotes *hail*	shs-r denotes *showers of rain*	h-sqs denotes *heavy squalls*
ci .. *cirrus*	so-ha .. *solar halo*	c-r .. *continued rain*	fr-h-sqs .. *frequent heavy squalls*
ci-cu .. *cirro-cumulus*	l .. *lightning*	c-h-r .. *continued heavy rain*	sc .. *scud*
ci-s .. *cirro-stratus*	li-cl .. *light clouds*	m-r .. *misty rain*	li-sc .. *light scud*
cu .. *cumulus*	lu-co .. *lunar corona*	fr-m-r .. *frequent misty rain*	sl .. *sleet*
cu-s .. *cumulo-stratus*	lu-ha .. *lunar halo*	sl-r .. *slight rain*	sn .. *snow*
d .. *dew*	m .. *meteor*	h-shs .. *heavy showers*	sl-sn .. *slight snow*
h-d .. *heavy dew*	ms .. *meteors*	fr-shs .. *frequent showers*	s .. *stratus*
f .. *fog*	n .. *nimbus*	fr-h-shs .. *frequent heavy showers*	t .. *thunder*
th-f .. *thick-fog*	r .. *rain*	li-shs .. *light showers*	t-s .. *thunder storm*
fr .. *frost*	th-r .. *thin rain*	oc-shs .. *occasional showers*	v .. *variable*
gt-glm *great gloom*	oc-r .. *occasional rain*	sq .. *squall*	w .. *wind*
h-fr .. *hoar frost*	fr-r .. *frozen rain*	sqs .. *squalls*	st-w .. *strong wind*
h .. *haze*	h-r .. *heavy rain*	fr-sqs .. *frequent squalls*	

MONTH and DAY, 1855.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Reading of the Solar Thermometer in a Vacuum.	Lowest Reading of the Terrestrial Thermometer.	Lowest Reading of the Thermometer exposed to Snow.	Mean Temperature of the Dew Point at 9h A.M.	Highest.	Lowest.	Mean Daily Value.	Difference between the Mean Daily Dew Point Temperature and Air Temperature. Greatest.	Least.	Difference between the Mean Daily Temperature of the Air and that of the Evaporation.	Wind as deduced from Anemometers. General Direction. A. M.	P. M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean for the Day.	Amount of Rain in Inches registered between 9 A.M. and 9 A.M.	Rain in Inches registered between 9 A.M. and 9 P.M.
			°	°	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	in.	in.
Jan. 1	..	29·838	51·6	41·6	47·7	40·[illegible]	51·7	35·1	42·5	41·2	6·8	7·8	6·0	−11·2			W	WNW	1·0	0·0	4·0	180	0·16
2	[illegible]	29·[illegible]	52·4	45·5	47·0	45·[illegible]	51·0	41·0	42·5	41·[illegible]	2·6	6·8	0·9	+ 8·3			NW	N; NW	2·5	0·0	0·1	105	0·00
3	Full	30·071	51·0	43·6	46·6	42·6	51·0	[illegible]	42·0	41·2	4·0	6·8	2·3	+10·6			NW	W	0·0	0·0	0·0	70	[illegible]
4	Apogee	30·103	47·0	42·3	44·0	39·7	52·0	35·5	42·5	41·0	4·3	6·4	1·0	+ 8·3			WSW	SW	0·0	0·0	0·0	95	0·05
5	..	30·019	49·7	43·1	45·[illegible]	41·2	54·6	36·2	42·8	42·1	6·[illegible]	[illegible]·5	3·5	+ 9·1			SW	SW	0·0	0·0	0·0	[illegible]	0·00
6	..	30·221	51·0	46·4	48·3	45·4	51·2	40·2	43·5	42·1	2·[illegible]	3·4	2·6	+13·0			SW	SW	0·0	0·0	0·0	85	0·05
7	..	30·38[illegible]	49·3	45·5	47·1	42·[illegible]	51·[illegible]	43·2	44·2	43·0	6·8	8·1	6·2	−12·0			SW	SW	0·0	0·0	0·0	45	0·00
8	..	30·219	47·2	43·[illegible]	45·1	38·[illegible]	49·5	41·3	44·5	43·2	6·2	9·0	4·8	+10·2			SW	SW	0·0	0·0	0·0	50	0·00
9	..	30·281	49·0	40·0	43·5	41·0	52·5	38·2	44·5	43·4	2·5	[illegible]·5	0·0	+ 8·5			SW	SW; E	0·0	0·0	0·0	50	0·05
10	In Equator	30·433	40·7	26·0	33·2	33·1	42·5	28·3	45·0	43·4	[illegible]·1	0·8	0·0	— 1·9			Calm	Calm	0·0	0·0	0·0	5	0·02
11	Last Qr.	30·400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44·8	43·2	0·9	3·3	[illegible]	[illegible]			Calm	Calm	0·0	0·0	0·0	25	0·01
12	..	[illegible]	39·7	32·3	36·7	36·7	40·7	21·8	45·0	43·0	0·0	0·3	0·0	+ 1·4			Calm	NE	0·0	0·0	0·0	10	0·00
13	..	30·402	41·6	34·9	37·2	34·4	44·0	[illegible]	44·5	43·0	2·8	[illegible]·3	1·6	− 1·7			NE	NE	0·0	0·0	0·0	25	0·01
14	..	30·369	40·0	30·4	[illegible]	[illegible]	[illegible]	[illegible]	44·2	43·0	1·6	3·4	0·6	− 1·8			Calm	N	0·0	0·0	0·0	25	0·00
15	..	30·244	34·3	27·2	30·5	29·7	35·3	26·0	43·5	42·1	0·8	2·2	[illegible]	− [illegible]			WSW	W	0·0	0·0	[illegible]	65	0·01
16	..	29·938	40·2	28·6	33·4	[illegible]	41·[illegible]	24·8	43·2	41·6	1·1	4·3	0·3	− 2·6			W; N	N; NE	3·4	0·0	0·3	90	0·11
17	[illegible]	[illegible]	31·0	23·8	26·3	20·8	32·0	20·0	43·0	40·7	5·5	7·8	2·6	− [illegible]			NE	NE	0·0	0·0	0·0	..	0·02
18	[illegible]	29·952	35·0	22·2	28·1	23·0	36·0	[illegible]	42·8	[illegible]	5·1	7·8	1·7	− 8·3			NE	N; S	0·0	0·0	[illegible]	..	0·03
19	..	29·866	28·2	16·2	21·1	16·8	28·5	22·0	42·0	38·4	4·3	8·1	0·9	−15·4			Calm	NE	0·0	0·0	[illegible]	..	0·00
20	..	29·694	31·8	24·2	29·0	26·5	33·0	[illegible]	41·8	[illegible]	2·5	5·2	[illegible]	− [illegible]			NE	NE	2·9	0·0	0·8	..	0·00
21	..	29·752	27·5	18·7	22·7	18·4	34·0	..	[illegible]	[illegible]	4·3	5·7	0·0	−14·1			ESE; Calm	Calm; WSW	0·0	0·0	0·0	..	0·00
22	..	29·730	30·0	21·8	26·3	25·1	32·3	..	40·5	36·3	1·2	[illegible]	0·6	−10·5			SW	Calm	0·0	0·0	0·0	..	0·04
23	In Equator	29·779	33·4	24·8	29·3	27·3	36·2	[illegible]	40·0	[illegible]	2·0	5·1	0·7	− 7·6			Calm	NNE	0·0	0·0	0·0	..	0·03
24	..	29·894	36·0	29·0	32·0	29·9	37·0	[illegible]	39·4	34·7	2·1	2·9	1·7	− [illegible]			NE	NE	2·0	0·0	0·0	..	0·11
25	First Qr.	29·924	37·0	31·4	33·9	30·0	[illegible]	27·8	39·0	[illegible]	3·9	[illegible]	3·1	− 3·2			NNE	NNE	0·0	0·0	0·0	..	0·16
26	..	29·844	[illegible]	30·0	32·5	29·5	37·0	28·0	38·5	35·2	3·0	4·4	2·2	− [illegible]			NNE	W	0·0	0·0	0·0	..	0·04
27	..	29·880	[illegible]	24·4	28·5	25·3	40·0	[illegible]	38·2	35·6	[illegible]	[illegible]	1·2	− 8·8			W; Calm	ENE; Calm	0·0	0·0	0·0	..	0·06
28	..	29·798	34·2	24·6	30·7	26·3	37·0	[illegible]	38·0	35·6	4·4	..	[illegible]	− [illegible]			NNE	NE; W	0·0	0·0	0·0	..	0·02
[illegible]	..	29·576	[illegible]	28·7	30·5	27·6	36·0	28·0	38·5	35·8	2·9	4·5	1·1	− [illegible]			W	NE	0·0	0·0	0·0	..	0·05
30	[illegible]	29·607	[illegible]	27·4	29·8	28·2	34·0	21·0	38·0	35·6	1·6	2·9	0·9	− 7·7			Calm; E	ENE	0·0	0·0	0·0	..	0·00
31	..	29·348	29·0	26·2	27·2	24·8	30·5	..	38·0	[illegible]	2·4	4·6	0·6	−10·4			ENE	ENE	3·0	0·0	1·5	..	0·00
Feb. 1	Apogee	29·793	31·5	25·4	27·8	22·8	33·0	..	[illegible]	[illegible]	5·0	7·4	1·8	− 9·9			NE	NE	0·0	0·0	0·0	..	0·16
2	Full	29·828	29·4	22·2	26·1	24·3	32·0	20·0	[illegible]	[illegible]	1·8	[illegible]	0·0	−11·7			ENE	ENE	4·8	0·0	1·8	..	0·00
3	..	29·385	39·6	27·8	32·8	32·2	42·0	25·0	37·0	[illegible]	0·6	2·8	[illegible]	− [illegible]			E	SE	4·3	0·0	0·7	..	0·05
4	..	[illegible]	39·0	32·5	35·2	35·2	40·0	[illegible]	37·0	[illegible]	0·0	0·0	0·0	− 2·7			SSE	Calm	0·0	0·0	0·0	..	0·15
5	..	29·216	40·4	[illegible]	36·2	35·9	42·0	27·5	36·5	[illegible]	0·3	2·4	0·0	− 1·8			Calm; N	N	0·0	0·0	0·0	60	0·05
6	In Equator	29·346	36·0	32·2	33·1	32·3	36·5	25·8	36·0	34·2	[illegible]	1·3	[illegible]	− [illegible]			NE	NE	0·0	0·0	0·0	135	0·00
7	..	29·683	34·0	30·2	31·4	28·0	36·0	[illegible]	[illegible]	34·2	[illegible]	4·6	2·4	− 6·8			NE	NE	2·0	0·0	0·0	175	0·05
8	..	29·628	31·2	28·2	29·5	28·7	33·0	32·2	35·8	34·7	0·8	1·6	0·4	− 8·8			NE	NE; E	4·0	0·0	0·8	[illegible]	0·48
9	..	29·785	31·0	26·5	27·9	26·2	31·0	[illegible]	[illegible]	34·2	1·7	2·6	1·2	−10·4			E	NE	3·0	0·0	0·4	120	0·00
10	Last Qr.	29·725	[illegible]	17·[illegible]	[illegible]	[illegible]	36·0	[illegible]	35·0	[illegible]	1·7	9·4	0·9	−15·4			NE	NE	0·0	0·0	0·0	50	0·00
11	..	29·438	36·5	14·5	25·8	[illegible]	[illegible]	[illegible]	35·0	33·2	0·6	3·5	0·0	−12·7			Calm	NE	0·0	0·0	0·0	30	0·00
12	..	29·387	36·0	23·2	29·2	[illegible]	[illegible]	18·0	34·8	33·2	4·7	6·4	3·1	− 9·4			NE	NNE	1·7	0·0	0·2	[illegible]	0·00
13	[illegible]	29·276	30·0	23·2	25·5	21·8	37·2	23·0	34·8	[illegible]	3·7	9·4	0·9	−13·2			NNE	NE	0·0	0·0	0·0	55	0·00
14	..	[illegible]	34·0	13·8	24·5	22·5	38·0	[illegible]	[illegible]	33·2	2·0	5·5	0·6	−14·2			N	N	0·0	0·0	0·0	60	0·00
15	..	29·707	31·0	22·5	26·5	22·8	34·0	[illegible]	34·4	33·5	[illegible]	6·8	0·0	−12·3			N	N	0·0	0·0	0·0	15	0·00
16	[illegible]	29·789	32·8	19·2	24·5	19·7	37·2	18·0	..	..	[illegible]	7·7	0·0	−14·4			Calm	E	2·9	0·0	0·5	[illegible]	0·00
17	..	29·788	[illegible]	18·[illegible]	[illegible]	16·7	33·5	[illegible]	..	..	[illegible]	12·2	3·4	−17·2			ENE	NE	3·5	0·0	0·4	30	0·00
18	..	29·889	31·7	13·1	21·1	13·4	40·0	..	..	..	7·7	[illegible]	3·4	−18·0			Calm	Calm	0·0	0·0	0·0	5	0·00
19	In Equator	29·836	[illegible]	11·1	23·3	19·9	42·5	..	..	..	3·4	[illegible]	2·6	−15·[illegible]			Calm	NE	0·0	0·0	0·0	15	0·00
20	..	[illegible]	35·0	19·3	25·8	22·7	[illegible]	[illegible]	..	..	3·1	[illegible]	2·5	−13·5			N	NE	0·0	0·0	0·0	55	0·00
21	..	29·748	[illegible]	18·8	24·8	18·9	[illegible]	[illegible]	..	..	5·9	[illegible]	[illegible]	−14·5			NE	Calm	0·0	0·0	0·0	35	0·00
22	..	[illegible]	37·0	17·8	26·8	23·1	[illegible]	[illegible]	..	..	[illegible]	8·0	3·1	−12·6			Calm	Calm	0·0	0·0	0·0	30	0·00
23	First Qr.	[illegible]	36·0	24·8	30·2	26·7	40·0	20·8	..	..	3·5	5·5	[illegible]	− [illegible]			Calm	Calm	0·0	0·0	0·0	[illegible]	0·10
24	..	29·750	41·2	29·3	34·8	28·8	58·0	[illegible]	..	..	6·0	8·0	0·8	− 4·8			Calm	SW	0·0	0·0	0·0	[illegible]	0·00
25	..	29·258	48·4	30·5	42·3	41·8	50·5	30·0	..	..	0·5	[illegible]	0·0	+ 2·6			SW; S	SW; S	2·[illegible]	0·0	0·3	80	0·16
26	[illegible]	29·453	[illegible]	[illegible]	[illegible]	[illegible]	44·0	[illegible]	..	..	0·5	[illegible]	0·0	− 3·0			Calm	N	0·0	0·0	0·0	55	0·05
27	..	29·619	37·8	32·4	[illegible]	34·2	41·0	[illegible]	..	..	0·8	[illegible]	[illegible]	− 4·9			Calm; SE	SSE	0·0	0·0	0·0	50	0·12
28	Apogee	[illegible]	[illegible]	[illegible]	40·9	[illegible]	49·5	[illegible]	..	..	0·5	2·2	[illegible]	+ [illegible]			Calm	SW	0·0	0·0	0·0	[illegible]	[illegible]

January 17 to February 4. Whewell's Anemometer was under repair.

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1	m	m	10 fr-m-r	10 fr.-m.-r
2	m	m	10, m-r	10, m.-r
3	m	m	10	10, cu, cu.-s, ci.-s
4	m	m	10	10, s, ci.-s
5	m	m	3, s, ci.-s, li.-cl	3, ci.-cu : 10, ci.-s
6	m	m	10	10
7	s	s	10	10
8	s	s	10	10 : sl.-r
9	s	s	9, ci.-cu, ci.-s	10 : sl.-r
10	s, sps	s, sps	10, f	10, s : v, th.-f
11	s, sps	s, sps	10, th.-f, h.-fr	10, f : v
12	s, sps	s, sps	10, f : th.-f	10 : r
13	s	s, sps	7, cu.-s, ci.-s, sl.-r : 10	10 : 7, li.-cl
14	m	m	10, f	10 : 0
15	s, sps	s, sps	10, th.-f, h.-fr : sl.-sn	10, s, ci.-s
16	s	s	10, sn, sl.-r	10, ci.-cu, ci.-s, sc : sn
17	s	s	v, ci.-cu, ci.-s	v, ci.-s, sn
18	s	s : N, w	7, ci.-cu, ci.-s, li.-cl	7, ci.-cu, ci.-s : 10, sn
19	s	s	0 : 7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 0
20	0	0	10	10
21	v	v	10, sn : 7	7 : 10
22	v	v	10, sn	10, ci.-s : 9
23	v	v	10, sn	10
24	v	v	7 : 10	10
25	v	v	10, s, ci.-s, li.-cl	10
26	v	v	10, f	10
27	v	v	7 : 0	0
28	v	v : s, sps	10, sl.-sn	10
29	N, sps, g cur	v	10, f : sn	7, ci.-s, li.-cl : 10, lu.-co
30	v	v	10, sn	10, sn
31	v	v	10, sn	10, sn
Feb. 1	v	v	7, ci.-cu, ci.-s : 10	10
2	v	v	7, ci.-cu, ci.-s : 10	10
3	v	v	10	10
4	v	v	10, f : gt.-glm	10
5	s, sps : N, s, sps	N, s, sps : s	7 : 10, th.-r	10, gt.-glm : sn.-r
6	v	N, P, sps, g cur : v	10, sl.-sn	10, sn, r
7	s	s	10	10
8	s, sps	s, sps	10, sl.-sn	10, sn
9	m	m	10	10
10	s, sps	s, sps	0	3, ci.-cu, ci.-s : 0
11	s, sps	s, sps	10, s, ci.-s	0 : 10
12	s	s	0	0 : v, s, ci.-s
13	s	s	10, ci.-s, sn	10, sn
14	s, sps	s, sps	7, ci.-s	7, s, ci.-s : v
15	s, sps	s, sps	0	0 : v, sn
16	s	s	0	7, ci.-cu, ci.-s : 10
17	s, sps	s, sps	7, cu.-s, ci.-s, sc, sn	7, ci.-cu, ci.-s : 0
18	s	s	7, ci.-cu, ci.-s	0
19	s, N, sps	s	10, ci.-s	10
20	s	s	7, ci.-cu, li.-cl : 0	0
21	s, sps	s, sps	10, sn : 7	10, ci.-cu, ci.-s, li.-cl, sn
22	s, sps	s	7, ci.-cu, ci.-s	7, ci.-cu
23	s, sps	s, sps	10, sn	10 : f
24	v	v	10 : 0	0 : 10, s, ci.-s
25	m	m	10, r	10, r
26	v, sps	v, sps	10, oc.-r	10, oc.-r
27	m	m	10, sn, r	10, r
28	s, sps	s, sps	10	10, r : 8, lu.-co

MONTH and DAY, 1855.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as Shewn by a Self-Registering Thermometer read at 9h A.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer Read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 2 Obs.	Wheel Work. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°				lbs.	lbs.	lbs.	miles.	in.
Mar. 1	..	29·460	53·6	37·5	43·4	39·1	67·5	29·0	..	..	4·3	10·5	1·2	+ 3·4	SW	SW	5·0	0·0	0·5	225	0·12
2	..	29·082	52·0	37·5	45·3	43·5	58·0	33·9	..	..	1·8	4·8	1·2	+ 5·3	SW	SW	5·0	0·0	0·8	234	0·23
3	Full	28·963	49·0	37·4	41·9	35·7	58·0	33·0	..	..	6·2	11·0	4·6	+ 1·9	SW	W	5·5	0·0	2·1	255	0·12
4	..	29·488	50·6	33·7	41·7	36·9	67·0	27·5	..	..	4·8	12·0	0·8	+ 1·8	WSW	SW; S	0·0	0·0	0·0	20	0·00
5	In Equator	29·630	51·1	33·0	41·1	33·9	65·3	27·5	..	..	7·2	14·1	1·4	+ 1·1	S	S; Calm	0·0	0·0	0·0	10	0·00
6	..	29·743	51·2	32·0	39·1	35·8	65·0	22·0	..	..	3·3	12·4	1·8	— 0·6	Calm	E	0·0	0·0	0·0	5	0·00
7	..	29·733	46·3	29·3	35·0	34·5	63·5	18·8	..	..	0·5	10·4	0·0	— 4·7	E	E	0·0	0·0	0·0	55	0·00
8	..	29·978	46·2	27·3	35·4	30·5	65·0	15·8	..	..	4·9	14·5	3·0	— 4·5	NNE	NE; Calm	0·0	0·0	0·0	20	0·00
9	..	29·865	40·0	26·3	31·9	28·8	55·0	17·0	..	..	3·1	9·0	2·6	— 8·6	Calm	NE; SE	0·0	0·0	0·0	30	0·00
10	..	29·685	33·8	24·5	27·7	27·1	34·0	28·0	..	..	0·6	6·3	0·0	—12·7	SE	E	0·0	0·0	0·0	15	0·00
11	Last Qr.	29·384	36·3	24·5	31·2	25·6	43·8	16·5	..	..	5·6	6·8	3·2	— 9·5	SE		0·0	0·0	0·0	75	0·10
12	Greatest Declination S.	28·798	45·3	30·2	37·2	35·7	45·5	30·0	..	..	1·5	9·2	0·7	— 3·7	SW	NW	5·2	0·0	1·3	180	0·33
13	..	29·169	46·4	35·0	40·2	30·8	54·0	31·0	..	..	9·4	15·6	5·7	— 1·3	NW	NW	2·5	0·0	0·5	135	0·05
14	..	29·506	43·2	31·3	36·8	33·5	49·0	29·0	..	..	3·3	7·4	2·1	— 4·6	Calm	S	0·0	0·0	0·0	70	0·00
15	..	29·629	45·8	31·5	37·6	32·8	58·0	27·4	..	..	4·8	13·8	2·0	— 3·9	SE	SSE	0·0	0·0	0·0	205	0·00
16	Perigee	29·506	53·3	36·8	43·6	37·6	68·6	32·5	..	..	6·0	12·6	4·0	+ 1·9	S; W	WSW; S	3·4	0·0	0·5	200	0·15
17	..	29·383	49·0	37·6	42·8	40·2	52·0	32·0	..	..	2·6	6·2	1·4	+ 1·0	S	S; W	7·5	0·0	1·4	320	0·07
18	New In Equator	29·600	48·9	34·9	42·1	35·4	63·0	30·0	..	..	6·7	9·2	4·2	+ 0·3	WSW	WSW	5·8	0·0	1·9	205	0·04
19	..	29·808	52·0	35·9	44·0	41·9	63·3	28·0	..	..	2·1	5·9	1·0	+ 2·1	SW	SW	0·0	0·0	0·0	45	0·01
20	..	29·613	57·8	33·5	45·4	39·8	78·0	26·4	..	..	3·6	10·6	0·0	+ 1·4	SW; NE	ESE	0·0	0·0	0·0	115	0·00
21	..	29·164	45·0	34·2	37·5	33·2	60·5	35·0	..	..	4·3	8·3	3·1	— 4·6	E	ENE	3·6	0·0	1·5	180	0·00
22	..	28·761	35·8	32·2	33·5	33·2	37·0	32·8	..	..	0·3	3·1	0·0	— 8·7	NE	NE	3·1	0·0	0·8	175	0·23
23	..	28·977	38·0	32·5	34·3	29·4	42·0	32·3	..	..	4·9	8·3	3·4	— 8·0	N	N	0·0	0·0	0·0	85	0·00
24	..	29·178	38·1	28·8	32·7	27·2	41·3	24·1	..	..	5·5	9·7	2·0	— 9·7	N	NE	0·0	0·0	0·0	95	0·00
25	First Quarter Greatest Dec. N.	29·391	43·8	27·4	34·5	30·3	59·2	21·0	..	..	4·2	12·2	1·9	— 8·0	NE	NNE	0·0	0·0	0·0	95	0·00
26	..	29·548	46·8	25·6	35·5	28·5	65·0	17·0	..	..	7·0	13·6	3·9	— 7·2	Calm	NNE	0·0	0·0	0·0	15	0·00
27	..	29·729	47·0	32·3	38·1	32·8	53·0	29·8	..	..	5·3	13·2	3·5	— 4·7	Calm	Calm	0·0	0·0	0·0	5	0·00
28	Apogee	30·011	43·5	31·0	36·4	34·8	54·0	21·4	..	..	1·6	6·7	0·0	— 6·6	Calm	E	0·0	0·0	0·0	10	0·01
29	..	30·320	47·0	30·9	36·4	30·9	64·0	31·2	..	..	5·5	9·6	0·8	— 6·8	NNE	NE; Calm	0·0	0·0	0·0	40	0·00
30	..	30·318	48·0	30·5	37·5	33·7	60·0	20·3	..	..	3·8	12·0	0·8	— 5·8	N	N	0·0	0·0	0·0	25	0·00
31	..	30·266	47·8	30·3	37·0	32·0	68·0	19·5	..	39·5	5·0	13·6	2·8	— 6·4	N	NE	0·0	0·0	0·0	20	0·00
Apr. 1	..	30·131	48·8	27·1	36·2	31·8	73·0	17·0	..	..	4·4	13·6	3·3	— 7·4	Calm; N	E	0·0	0·0	0·0	15	0·00
2	In Equator Last	29·969	46·9	25·9	32·7	30·4	69·0	19·0	..	39·0	2·3	9·1	1·5	—11·0	Calm	SE	0·0	0·0	0·0	30	0·00
3	..	29·538	51·5	31·1	40·3	37·7	66·5	23·0	..	39·3	2·6	9·9	1·9	— 3·6	SE	SE	2·5	0·0	0·1	95	0·03
4	..	29·632	53·2	36·8	41·7	38·6	68·5	37·6	..	40·1	3·1	8·8	2·6	— 2·3	NE	ENE	0·0	0·0	0·0	50	0·01
5	..	29·928	57·0	27·8	41·3	36·5	63·0	19·7	..	40·5	4·8	12·2	3·1	— 2·9	Calm	W; Calm	0·0	0·0	0·0	20	0·00
6	..	29·988	63·8	37·9	50·3	44·8	81·8	30·3	..	41·5	6·1	16·2	5·3	+ 6·5	SW	W	0·0	0·0	0·0	70	0·00
7	..	29·978	59·0	45·7	50·0	38·3	78·7	41·5	..	42·5	11·7	20·9	8·0	+ 5·5	W	NW	0·0	0·0	0·0	120	0·00
8	Greatest Declination S.	29·889	51·5	37·2	44·0	35·7	66·0	26·8	..	43·5	8·3	14·7	1·7	— 0·7	W	WNW	3·1	0·0	0·6	210	0·00
9	Last Qr.	29·498	55·0	40·0	46·7	43·0	62·0	35·4	..	44·0	3·7	8·4	3·1	+ 1·9	SW	SW	6·0	0·0	1·9	295	0·00
10	..	29·144	53·2	40·8	45·6	34·8	68·0	31·0	..	44·0	10·8	19·7	1·2	+ 0·6	WSW	W	14·4	0·0	2·2	285	0·03
11	..	29·401	54·8	40·5	45·5	38·1	69·5	31·2	..	..	7·4	12·8	3·5	+ 0·4	W	WNW; WSW	5·1	0·0	1·2	200	0·00
12	..	29·435	61·5	42·8	50·1	39·8	82·5	35·0	..	..	10·3	15·1	4·1	+ 4·8	W	WSW	2·0	0·0	0·2	140	0·00
13	Perigee	29·447	54·5	45·2	48·2	47·1	60·5	40·0	..	..	1·1	3·6	0·7	+ 2·7	S	S	0·0	0·0	0·0	70	0·02
14	..	29·822	63·0	42·8	50·4	40·9	85·0	35·0	..	..	9·5	15·7	4·8	+ 4·7	SW	W	0·0	0·0	0·0	90	0·00
15	In Equator	30·047	64·0	43·3	53·3	47·5	81·8	36·2	..	..	5·8	10·9	4·2	+ 7·4	SW	SW	3·0	0·0	0·0	130	0·00
16	New	30·133	72·8	45·1	56·9	51·0	111·5	40·0	..	..	5·9	15·3	1·4	+10·9	SW	SW	0·0	0·0	0·0	45	0·00
17	..	30·222	65·2	42·7	51·9	43·3	86·0	40·0	..	..	8·6	15·5	5·5	+ 5·6	NE	ENE	0·0	0·0	0·0	75	0·00
18	..	30·193	54·3	33·2	42·9	36·2	77·0	25·0	..	..	6·7	15·0	2·2	— 3·6	NE	Calm	0·0	0·0	0·0	55	0·00
19	..	29·961	65·5	29·2	47·2	38·8	90·0	30·5	..	..	8·4	19·5	7·4	+ 0·4	NE	Calm	0·0	0·0	0·0	30	0·00
20	..	30·105	62·7	41·0	49·6	37·6	86·0	41·3	..	..	12·0	21·4	5·0	+ 2·6	N	N; E	0·0	0·0	0·0	80	0·00
21	..	30·377	54·7	32·0	41·9	31·8	77·2	20·0	..	..	10·1	19·6	5·0	— 5·4	NE	NE	0·0	0·0	0·0	85	0·00
22	Greatest Declination N.	30·384	51·6	29·6	39·9	34·0	71·0	20·7	..	..	5·0	16·0	3·0	— 7·6	NE	NE	2·0	0·0	0·1	85	0·00
23	..	30·333	58·6	31·7	43·8	37·1	62·5	27·0	..	..	6·7	16·7	2·2	— 4·0	NE	E	0·0	0·0	0·0	50	0·00
24	First Qr.	30·154	68·0	29·7	48·6	35·6	90·0	25·0	..	..	13·0	25·1	2·4	+ 0·4	Calm	N	0·0	0·0	0·0	160	0·00
25	Apogee	30·010	51·2	39·3	42·6	37·3	68·0	35·5	..	..	5·3	13·0	4·8	— 5·9	N	N	5·5	0·0	0·7	80	0·00
26	..	30·093	58·0	33·1	43·4	37·4	87·6	21·0	..	..	6·0	16·9	5·3	— 5·4	N	N	0·0	0·0	0·0	10	0·00
27	..	30·047	58·6	36·7	45·2	39·7	85·6	32·8	..	..	5·5	16·7	3·3	— 4·0	NE	Calm	0·0	0·0	0·0	10	0·00
28	..	29·961	60·0	35·8	44·7	39·2	80·0	24·8	..	..	5·5	16·0	2·1	— 4·8	Calm	N	0·0	0·0	0·0	60	0·00
29	In Equator.	30·070	54·8	37·7	43·2	39·1	69·0	36·0	..	..	4·1	9·6	3·3	— 6·7	N	NNW	2·5	0·0	0·2	170	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1	w	w	10, r	8, ci.-cu, ci.-s : v, lu.-co, lu.-ha
2	m	m	10, s, ci.-s, r	10, s, ci.-s : h.-r
3	s N, s P, sps	s N, s P, sps	v, s, ci.-s, li-cl, th-r	v, s, ci.-s, r : o
4	m	m	3, ci.-cu, ci.-s, li.-cl	3, cu.-s, ci.-s : 10, lu.-co
5	v, sps	v, sps	o : 10, so-ha	v, ci.-cu, ci.-s : o
6	s, sps	s, sps	3, s, f	3, ci.-cu, ci.-s : o
7	s, sps	s, sps	10, f, h-f	5, cu.-s, ci.-s, f : o
8	v, sps	v, sps	7, s, ci.-s, li.-cl	9, ci.-cu, ci.-s : o
9	s, sps	s, sps	10, f, h-fr	10, cu.-s, ci.-s, sn
10	s, sps	s, sps	10, sn	10, sn : v
11	s	s	10, sn	10, sl
12	s N, s P, sps	s N, s P, sps	10, ci.-cu., ci.-s	10, h.-r
13	w	w	8 : 10	10
14	s, sps	s, sps	10	10, ci.-s, m.-r
15	s, sps	s	o : 10, cu.-s, ci.-s.	10 : th.-r
16	m	w : s, sps	v, cu, ci.-cu, r	v, cu, ci.-cu : o
17	N, w : o	o	10, r	10, r
18	o	o	v, cu, cu.-s, h.-shs	v, ci.-s, hl, r
19	o	o	10 : m.-r	10, m.-r
20	w	v	7, ci.-cu, ci.-s, li.-cl	7 : 10 m.-r
21	m	s	10	10
22	s P, s N, sps	w	10, sl, h.-r, sn	10, sn, r
23	w	w : s, sps	10	10
24	v	v	10	10
25	s	s	v, cu, ci.-cu, ci.-s	v : lu•co
26	v, sps	v, sps	o	v, cu, cu.-s
27	v, sps	v, sps	10, f	10, ci.-s, sc
28	P, N, v	P, N, v	10, sn	10, sn : r
29	v, sps	v, sps	10	5 : 10
30	v, sps	v, sps	10 : v	v
31	s, sps	s, sps	10, cu, ci.-cu	3, cu : c
Apr. 1	s, sps	m	3, ci.-s, sc : 10	10, ci.-cu, ci.-s
2	o : m	o	10 : v, s, ci.-s, li.-cl	v, cu.-s
3	o	o	10, r	10 : r
4	o	o	10, r	v : o
5	o	m	o	v : o, f
6	s, sps	s, sps	3, s, ci.-s, li-cl	3 : 10
7	s	m	10	5, ci.-s, li.-cl : 10
8	o	o	10	10 : r
9	o	o	10	10 : sh.-r : 10
10	o	o	10, h-r : 5	5
11	o	o	10, ci.-s, sc, shs.-r	9, ci.-cu, ci.-s, r : 10
12	o	o	7, ci.-s	o : 10
13	o	o	10 : r	10, r : 3
14	o	o	10, s, ci.-s, h : 5	5 : 2, li.-cl
15	o	o	10	o
16	o	o	3, ci : o	o
17	o	s	o	o
18	s	s, sps	o	o
19	s	m	o	o
20	m	m	o	o
21	w	w	o	3, cu : c
22	w	w	o	o : 3, ci.-cu.
23	s	m	o : cu	o
24	m	w	c, h	10, s, ci.-s, li.-cl
25	o	o	10	v
26	o	o	7	7, cu.-s, ci.-s : 10
27	o	o	10, s, ci.-s, li.-cl	5 : o
28	o	o	7, sl.-r : 10, cu.-s, ci.-s	10
29	o	o	10, cu.-s, ci. s, sl.-r	9 : 10, cu.-s, ci.-s.

MONTH and DAY. 1855.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Solar Radiation Thermometer (Black Bulb in vacuo) exposed to the Sun's Rays.	Lowest Terrestrial Radiation Thermometer (on the Grass).	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9 A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9 A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 8 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Amount of Rain collected in the Gauge at the South End of the Lawn.	Temperature of Evaporation at 9 A.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	in.	in.
Apr. 30	..	30.[illegible]	55·0	40·0	44·0	41·2	65·7	39·5	..	..	2·8	12·8	0·0	— 6·3	N	NNE	0·0	0·0	0·0	70	[illegible]
May 1	..	29.929	56·0	36·7	42·4	40·2	60·5	28·2	..	..	2·2	8·4	3·3	— 8·4	N	NE	0·0	0·0	0·0	75	0·00
2	Full	29.852	62·5	36·1	47·8	38·6	84·5	26·2	..	..	9·2	16·0	1·8	— 3·1	NE	NE	0·0	0·0	0·0	125	[illegible]
3	..	29.531	63·0	28·7	46·4	37·4	76·5	22·8	..	..	9·0	16·8	5·5	— 5·1	N	NE	4·5	0·0	0·5	165	[illegible]
4	..	29.638	50·3	36·0	40·8	31·7	68·0	35·0	..	..	9·1	15·5	3·4	—11·0	N	NNE	0·0	0·0	0·0	115	0·00
5	..	29.804	63·6	28·3	43·5	35·4	76·5	12·8	..	..	8·1	18·8	5·5	— 8·5	NE	NE; SE	4·0	0·0	0·3	15	[illegible]
6	Greatest Declination S.	29.825	63·8	37·1	50·0	41·8	[illegible]	30·5	..	..	8·2	12·9	6·7	— 2·2	SW	SW	3·0	0·0	0·3	135	0·00
7	..	29.722	60·4	41·7	50·7	43·1	[illegible]	37·0	..	48·7	7·6	14·0	2·4	— 1·5	SW	SW	5·0	0·0	0·9	145	0·00
8	..	29.[illegible]	55·0	39·0	47·4	35·4	[illegible]	37·0	..	48·7	10·0	13·0	4·0	— 6·7	NW; W	NW	3·5	0·0	0·5	135	0·07
9	Last Quarter	29.776	60·1	31·5	45·6	36·3	85·0	20·5	..	49·2	9·2	17·9	1·8	— 6·5	S	SW; S	2·0	0·0	0·2	235	0·07
10	..	29.378	65·8	42·9	51·0	45·3	80·0	..	..	49·2	6·6	15·4	3·6	0·0	SW	SW	3·5	0·0	0·5	180	0·09
11	..	29.[illegible]	60·8	42·5	47·4	43·3	89·0	40·0	52·5	50·5	4·1	13·0	1·9	— 4·4	SW	SW	4·0	0·0	0·3	185	0·29
12	In Equator	29.702	50·5	36·7	42·4	34·5	63·0	30·0	52·5	50·4	7·9	14·3	6·7	— 9·3	NW	NW; Calm	1·5	0·0	0·0	160	0·00
13	..	29.370	47·2	35·5	41·2	37·8	52·0	30·0	52·0	50·0	3·4	6·0	1·2	—10·5	S; SE	NE; N	4·0	0·0	0·6	190	0·35
14	..	29.556	50·5	38·5	43·5	37·[illegible]	[illegible]	27·5	51·5	49·4	5·8	12·4	2·6	— 8·4	N	NE	2·0	0·0	0·0	80	0·05
15	..	29.433	50·8	34·[illegible]	42·0	30·1	63·0	27·5	51·1	49·2	2·9	10·9	2·0	—10·3	NE	N	0·0	0·0	0·0	150	[illegible]
16	New	29.606	50·0	41·[illegible]	45·1	40·3	58·5	40·8	50·5	49·2	4·8	9·7	3·1	— 7·4	N	N	0·0	0·0	0·0	70	0·03
17	..	29.818	61·0	37·8	46·5	41·4	83·5	26·8	50·0	49·0	5·1	15·8	1·5	— 6·4	NW	Calm	0·0	0·0	0·0	25	[illegible]
18	..	29.979	62·5	39·2	49·6	42·0	66·4	..	50·5	49·2	7·6	17·5	2·0	— 3·6	SW	SW	0·0	0·0	0·0	60	[illegible]
19	Greatest Declination N.	29.853	66·5	43·[illegible]	54·1	45·7	87·5	39·0	51·0	49·4	8·4	10·0	6·4	+ 0·7	S	S; E	0·0	0·0	0·0	75	[illegible]
20	..	29.722	65·5	46·8	56·0	44·2	85·8	43·1	52·5	50·0	11·8	13·8	2·6	+ 2·2	E	ENE	2·5	0·0	0·2	90	0·00
21	..	29.683	53·2	39·5	46·0	42·5	63·0	27·2	53·5	50·9	3·7	11·2	2·9	— 8·0	N	N	0·0	0·0	0·0	55	0·01
22	..	29.721	59·2	43·5	49·9	45·[illegible]	72·5	44·1	53·5	51·1	4·4	11·0	0·7	— 4·4	N	Calm; S	0·0	0·0	0·0	55	[illegible]
23	Apogee	29.673	61·0	41·8	50·0	45·4	84·0	34·8	53·[illegible]	51·4	4·6	12·4	1·2	— 4·5	S	S	0·0	0·0	0·0	85	0·00
24	First Qr.	29.660	68·5	55·0	58·9	52·1	94·7	35·7	54·5	51·7	6·8	16·2	5·2	+ 4·1	SE	SE	0·0	0·0	0·0	105	0·00
25	..	29.725	79·0	45·5	61·[illegible]	53·4	101·5	35·0	56·4	53·2	8·3	15·9	2·5	+ 6·[illegible]	SE	SE; E	0·0	0·0	0·0	50	[illegible]
26	In Equator	29.721	81·5	50·3	65·3	56·3	105·0	41·8	56·5	53·2	9·0	17·6	6·[illegible]	+10·0	NE	NE	2·0	0·0	0·1	165	0·00
27	..	29.598	72·8	54·4	61·5	54·[illegible]	..	50·0	57·[illegible]	54·[illegible]	6·8	12·9	4·6	+ 6·0	ENE	NE	0·0	0·0	0·0	120	0·00
28	..	29.717	57·2	48·8	51·3	49·6	58·3	47·2	58·5	55·5	1·[illegible]	6·8	0·0	— 4·5	NE; SW	N	0·0	0·0	0·0	10[illegible]	0·18
29	..	29.743	57·0	40·8	45·[illegible]	37·4	76·0	31·8	58·9	55·7	8·3	14·3	4·3	—10·2	N	N	4·5	0·0	0·4	190	0·00
30	..	29.769	52·0	39·2	43·[illegible]	39·[illegible]	68·0	38·0	58·4	55·5	6·0	10·1	5·3	—12·5	N	N	4·9	0·0	1·2	150	0·02
31	Full	29.[illegible]	52·4	40·2	45·4	44·5	52·5	38·8	58·1	54·7	0·9	1·8	0·0	—11·0	N	N; SE	3·8	0·0	0·6	1[illegible]	0·59
June 1	..	29.[illegible]	52·5	45·[illegible]	48·[illegible]	41·4	5[illegible]	45·5	57·[illegible]	58·9	6·6	8·8	5·1	— 8·5	S	SSW	1·5	0·0	0·0	85	0·00
2	[illegible]	29.[illegible]	62·2	39·[illegible]	50·0	41·0	[illegible]	31·[illegible]	57·[illegible]	58·[illegible]	9·0	12·0	2·[illegible]	— 6·8	S	SW	0·0	0·0	0·0	60	0·00
3	..	29.[illegible]	64·0	39·[illegible]	53·2	42·4	88·0	29·5	56·9	53·7	10·8	14·3	2·3	— 3·8	Calm	SW	0·0	0·0	0·0	45	[illegible]
4	Perigee	29.[illegible]	64·0	49·1	55·[illegible]	48·3	84·[illegible]	46·0	56·4	53·7	7·6	11·6	5·2	— 1·2	SW	SW	2·7	0·0	0·5	160	0·00
5	..	29.764	68·0	51·[illegible]	58·1	49·5	86·0	48·0	56·1	53·7	8·6	13·4	8·1	+ 0·8	SSW	S; SE	2·7	0·0	0·2	70	0·02
6	..	29.[illegible]	83·5	57·8	71·4	52·9	107·5	41·5	58·1	54·3	18·5	26·4	6·[illegible]	+13·9	SE	SE	2·7	0·0	0·4	135	0·00
7	Last Qr.	29.764	72·6	53·0	5[illegible]	52·3	83·5	53·0	5[illegible]	54·[illegible]	5·8	15·6	3·2	— 0·1	WSW	SW	0·0	0·0	0·0	50	0·08
8	In Equator	29.828	6[illegible]	50·0	58·1	47·8	[illegible]	44·0	..	..	10·3	16·2	5·3	+ 0·2	Calm	SSW	0·0	0·0	0·0	120	0·00
9	..	29.926	65·2	48·4	55·1	45·3	[illegible]	41·5	..	..	9·8	15·8	2·2	— 3·0	SW	SW	0·0	0·0	0·0	150	0·00
10	..	[illegible]	72·2	45·4	57·5	48·4	[illegible]	35·8	..	..	9·1	12·6	4·1	— 0·8	SW	SW; Calm	0·0	0·0	0·0	20	0·00
11	..	[illegible]	72·5	46·[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	..	..	13·1	19·4	2·9	+ 0·5	Calm	NE	0·0	0·0	0·0	65	0·00
12	..	29.884	67·0	47·5	[illegible]	[illegible]	78·0	36·8	63·4	[illegible]	9·9	14·6	6·3	— 1·2	NE	NE	0·0	0·0	0·0	30	0·00
13	..	[illegible]	72·2	[illegible]	[illegible]	[illegible]	85·0	[illegible]	62·9	[illegible]	2·9	9·1	2·2	— 0·3	Calm	E; SW	2·7	0·0	0·2	100	0·17
14	New	[illegible]	62·0	49·5	52·2	48·0	[illegible]	43·0	63·1	60·2	4·2	12·6	2·0	— 6·8	SW	SW	2·6	0·0	0·2	175	0·04
15	[illegible]	[illegible]	[illegible]	49·7	54·1	49·5	[illegible]	41·0	62·9	59·9	4·6	10·8	3·0	— 5·1	S	SSW	2·7	0·0	0·8	130	0·15
16	..	29.263	[illegible]	[illegible]	49·5	46·8	78·0	37·0	62·4	59·7	2·7	[illegible]	2·2	— 9·9	S	SW; W	[illegible]	0·0	0·0	90	[illegible]
17	..	29.786	[illegible]	[illegible]	49·8	42·9	78·2	[illegible]	61·9	[illegible]	6·9	12·4	3·3	— 9·7	NW; N	NW	5·0	0·0	0·4	100	0·01
18	..	[illegible]	60·0	40·0	48·8	44·2	[illegible]	[illegible]	61·5	58·2	4·6	13·4	0·0	—10·[illegible]	SW	SW	3·5	0·0	0·2	120	0·06
19	Apogee	30.028	61·0	[illegible]	[illegible]	[illegible]	[illegible]	44·0	60·9	58·2	10·3	14·2	9·0	— 8·4	NE	N	0·0	0·0	0·0	60	0·01
20	..	30.253	63·5	[illegible]	[illegible]	38·7	[illegible]	[illegible]	60·9	57·7	12·0	17·6	5·5	— 9·4	NNE	NE	0·0	0·0	0·0	85	0·00
21	..	30.183	70·2	[illegible]	[illegible]	43·0	97·0	26·0	[illegible]	[illegible]	11·0	17·8	1·4	— 5·7	NE	NE	0·0	0·0	0·0	70	0·00
22	First Qr.	[illegible]	[illegible]	41·3	58·5	[illegible]	[illegible]	30·8	59·9	57·2	13·0	21·0	[illegible]	— 1·9	NE	N	0·0	0·0	0·0	75	0·00
23	In Equator	30.033	67·2	[illegible]	56·7	52·9	84·5	50·0	60·7	[illegible]	3·8	8·5	1·[illegible]	— 3·[illegible]	N	N	0·0	0·0	0·0	80	0·00
24	..	[illegible]	69·0	[illegible]	[illegible]	[illegible]	94·8	36·2	61·4	[illegible]	12·8	15·8	2·0	— 2·0	NW	N; W	0·0	0·0	0·0	90	0·00
25	..	[illegible]	70·0	47·7	58·2	[illegible]	[illegible]	36·5	62·5	[illegible]	9·5	14·2	[illegible]	— 2·7	W	W; SW	2·5	0·0	0·3	140	0·00
26	..	[illegible]	76·2	53·0	62·7	56·1	[illegible]	41·5	62·9	[illegible]	6·6	13·8	3·1	+ 1·7	SW; W	W; NW	0·0	0·0	0·0	25	0·00
27	..	30.229	[illegible]	56·4	66·8	[illegible]	94·5	[illegible]	[illegible]	60·5	11·8	20·1	2·9	+ 5·6	Calm	Calm	0·0	0·0	0·0	5	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Apr. 30	o	o	10, r	10 : v
May 1	o	o	10, ci-s : th.-r	5, ci.-cu : o
2	o	o	o	o
3	o	o	o	8, cu.-s, ci.-s : 10
4	o	o	10	10 : o
5	o	o	7, cu, cu.-s, sc	v, cu, ci.-cu : h
6	o	o	10, ci-s, sc : v	v
7	o	o	10, r	10 : 10, shs.-r
8	o	o	7, ci.-s, sc, shs.-r	7, shs.-r : o, h
9	o	s	9, ci.-cu, ci.-s, li.-cl	10 : r
10	m, N	w	10, ci.-s, sc, r	10
11	w, s, N, sps, g cur	s, N, sps, g cur	10, n, s, ci.-s, shs.-r	10, cu, cu.-s, shs.-r, t : f
12	o	o	10, cu, sc	10
13	o	o	10, r	10, r
14	o	o	10, r	9 : 10
15	w	w	10	10 : r
16	w	w	10	10 : o, h
17	o	o	5, ci.-cu, ci	10, ci.-cu, ci.-s, shs.-r, f
18	o	o	o, h : 10, cu.-s, ci.-s	7 : o
19	o	s	9, s, ci.-s, li.-cl	7, ci.-cu, s, li.-cl
20	m	m	5, ci.-cu, ci	10, ci.-cu, ci.-s
21	m	o	10, th.-r	10, r
22	o	o	10	10 : v
23	o	w	o	10 : o
24	m	o	7, s, ci.-s	10 : r
25	o	o	8, s, ci.-s, li.-cl : o	o
26	m	s	o	v, cu, ci.-cu, ci.-s, : lu.-co
27	o	o	3, ci	3 : 10, ci.-cu, ci.-s
28	o	o	10, r	10, r
29	o	o	10, r	9 : 10, r
30	s, N, sps	s, sps	9 : r	10, fr.-h.-shs
31	o	o	10, r	10
June 1	o	o	10	10 : 8
2	w	w	10	9, s, ci.-s, li.-cl : 10
3	s, sps	m	10, ci.-s, sc	7 : 10
4	o	o	7, cu, ci, sl.-r	7 : 10
5	o	o	10	10 : v
6	s	s	o	o : 10
7	o	o	10, h.-r : 10, oc.-shs	10, s, ci.-s
8	o	o	6, shs.-r	6, cu, cu.-s, sc
9	s, N, sps	o	7, cu, cu.-s, ci.-s, shs.-r	5, shs.-r : o
10	o	o	3, ci.-cu, ci.-s	o
11	o	m	o	o
12	m	m	9, ci.-cu, ci.-s, li.-cl	10
13	w	m	10, sl.-r	10 : ci.-s, sc, h.-shs.-r
14	w	o	10, r	9 : 10
15	o	o	v, r	v, h.-s, hs.-r
16	m	o	v, r, cu, ci.-s, hl, r	v, h.-shs.-r : 10, n, ci.-s, oc.-r
17	o	w	10, r	v, cu, cu.-s : 10, shs.-r
18	o	o	10 : 10, sl.-r	10, m.-r
19	o	o	7, cu, cu.-s	5, ci.-cu : o
20	o	o	8, cu, cu.-s	o
21	o	o	v, cu.-s, ci.-s, sc	o
22	o	o	o	10
23	o	o	10	10, sl.-r : o
24	o	o	3	3, s, ci, li.-cl
25	o	o	10	10
26	o	o	v	o v
27	o	s	5, cu, cu.-s	5

MONTH and DAY. 1855.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit)	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Solar Radiation Thermometer in Vacuo.	Lowest Terrestrial Radiation Thermometer on Grass.	In the Water of the Thames at Greenwich by Self-Registering Thermometer fixed at 15 ft. below Mean Tide Level. Highest.	In the Water of the Thames at Greenwich by Self-Registering Thermometer fixed at 15 ft. below Mean Tide Level. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day in an Average of 8 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Horizontal Movement of the Air in miles. Amount of Horizontal Movement in miles.	Rain in Inches read at 9 P.M.
																	lbs.	lbs.	lbs.		in.
June 28	..	30·111	78·0	50·5	63·8	54·1	98·0	38·0	64·7	60·9	9·2	18·6	3·4	+ 2·5	Calm	NE; E	0·0	0·0	0·0	70	0·00
29	[illegible] Full.	29·872	79·0	51·4	65·3	55·2	103·5	37·6	65·9	62·2	10·1	17·6	3·2	+ 3·8	ENE	E	0·0	0·0	0·0	90	0·00
30	..	29·891	76·5	58·2	65·3	54·4	105·0	51·0	66·9	62·9	10·9	16·2	5·7	+ 3·6	E; SW	SW	1·5	0·0	0·0	130	0·00
July 1	Perigee	30·056	73·0	51·7	62·1	54·1	90·0	43·0	66·9	62·9	8·0	13·2	4·9	+ 0·3	SW	SW; S	0·0	0·0	0·0	65	0·00
2	..	30·066	75·9	58·8	65·8	60·2	99·0	57·0	67·4	63·2	5·6	12·3	4·0	+ 3·8	SW; W	SW	0·0	0·0	0·0	50	0·00
3	..	30·038	77·2	57·9	67·6	60·6	103·0	50·7	67·4	63·7	16·7	19·8	10·2	+ 5·2	N	N	0·0	0·0	0·0	70	0·00
4	..	29·993	77·0	57·5	68·[illegible]	56·3	..	52·0	68·1	64·7	7·7	16·9	2·1	+ 1·7	NW; N	NE	0·0	0·0	0·0	40	0·00
5	..	29·944	79·0	43·7	60·4	51·7	..	40·0	68·9	65·2	8·7	18·5	6·3	— 1·9	Calm; NE	N; E	0·0	0·0	0·0	20	0·00
6	In Equator	29·913	76·0	50·1	61·8	55·6	89·0	41·5	68·9	64·9	6·2	13·8	3·8	— 0·4	E	Calm	0·0	0·0	0·0	20	0·00
7	Last Qr.	29·943	72·0	50·6	59·1	54·5	90·5	43·8	69·3	65·7	4·6	12·5	2·2	— 3·0	Calm	E	0·0	0·0	0·0	60	0·00
8	..	29·807	76·6	53·8	64·2	55·0	102·8	43·0	69·3	65·9	9·2	20·6	1·7	+ 2·2	E	Calm	0·0	0·0	0·0	70	0·00
9	..	29·582	76·8	54·0	63·4	58·3	97·0	53·5	69·5	66·2	5·1	15·3	3·2	+ 1·5	Calm	E	0·0	0·0	0·0	70	0·00
10	..	29·466	79·5	39·7	67·3	57·7	103·0	50·0	68·9	65·9	9·6	18·8	4·1	+ 5·5	SW	SW; NW	0·0	0·0	0·0	82	0·23
11	..	29·425	60·3	55·5	57·5	57·5	66·0	55·0	69·1	66·1	0·0	0·0	0·0	— 3·4	NE	N	0·0	0·0	0·0	140	1·42
12	[illegible]	29·674	77·0	58·5	65·3	60·7	85·0	58·0	69·4	66·3	4·6	15·0	2·5	+ 3·4	N	N	0·0	0·0	0·0	25	0·00
13	..	29·844	78·5	56·1	67·5	58·2	105·0	49·0	69·7	66·7	9·3	16·4	2·3	+ 5·5	Calm	SW	0·0	0·0	0·0	50	0·00
14	New	29·743	75·0	59·3	66·6	57·6	96·0	51·5	69·4	66·2	9·0	13·6	3·4	+ 4·5	SE; SW	SW	2·0	0·0	0·1	135	0·00
15	..	29·765	76·8	55·7	63·2	55·2	104·0	41·2	69·4	66·2	8·0	19·8	3·4	+ 1·1	SW	SW	0·0	0·0	0·0	60	0·00
16	..	29·417	72·2	54·7	59·2	57·0	95·0	53·5	69·7	66·3	2·2	11·4	0·0	— 2·9	Calm	W	2·0	0·0	0·0	115	0·60
17	Apogee	29·471	66·8	49·1	57·6	48·1	75·0	44·0	69·7	66·7	9·5	13·3	7·4	— 4·5	W	WNW	3·0	0·0	0·4	140	0·00
18	..	29·634	75·3	52·8	62·8	51·0	100·4	47·5	68·9	66·2	11·8	19·1	4·4	— 0·8	N	W; SW	0·0	0·0	0·0	75	0·00
19	..	29·488	62·8	51·5	54·[illegible]	52·3	68·0	48·0	67·9	64·0	2·6	7·7	1·7	— 7·0	S	SW	3·5	0·0	0·3	100	0·44
20	In Equator	29·716	70·7	49·1	59·[illegible]	48·0	89·0	41·0	66·7	64·2	11·0	15·0	3·5	— 2·[illegible]	W	NW	1·5	0·0	0·1	90	0·00
21	..	29·987	73·0	48·3	60·4	52·3	89·0	40·4	65·9	63·7	8·1	15·3	4·2	— 1·4	W	W	0·0	0·0	0·0	10	0·00
22	First Qr.	30·024	78·5	53·5	65·5	58·2	100·0	..	65·9	63·7	7·1	12·2	2·0	+ 3·7	SSW	WSW; Calm	0·0	0·0	0·0	15	0·00
23	..	29·[illegible]1	77·2	56·5	65·[illegible]	60·6	88·5	..	64·9	62·3	5·1	14·0	1·9	+ 3·[illegible]	Calm	SW	0·0	0·0	0·0	38	0·00
24	..	29·550	73·2	58·7	61·6	56·3	83·8	..	66·1	63·2	2·3	6·7	1·6	— 0·3	SW	SW	0·0	0·0	0·0	40	0·40
25	..	29·611	67·0	53·7	57·8	52·1	85·0	53·0	66·9	63·[illegible]	5·7	8·3	4·2	— 4·1	WSW	W; S	0·0	0·0	0·0	25	0·18
26	..	29·660	64·7	51·0	56·2	53·7	85·5	45·[illegible]	67·3	64·5	2·5	8·2	1·4	— 5·8	S	SW	0·0	0·0	0·0	95	1·15
27	[illegible] Declination S.	29·701	72·5	55·3	60·8	57·7	80·0	50·5	66·9	64·7	3·1	6·2	2·5	— 1·3	SW	SW	0·0	0·0	0·0	115	0·20
28	..	29·773	70·8	55·3	61·3	57·[illegible]	[illegible]·0	53·0	66·4	64·7	3·6	10·1	2·7	— 0·[illegible]	SW	SW	0·0	0·0	0·0	40	0·06
29	Full	29·788	75·5	52·[illegible]	63·7	56·6	100·0	45·0	66·5	64·7	7·1	15·2	2·6	+ 1·5	SW	W; SW	0·0	0·0	0·0	70	0·00
30	Perigee	29·738	75·0	55·3	64·2	57·4	97·0	51·0	66·9	64·3	6·8	14·4	2·8	+ 2·0	SW	SW	0·0	0·0	0·0	40	0·00
31	..	29·642	68·0	56·3	60·9	58·0	74·0	55·0	66·7	64·5	2·9	8·2	1·0	— 1·1	S	SW	0·0	0·0	0·0	85	0·30
Aug. 1	..	29·738	71·5	51·0	62·3	55·[illegible]	96·5	48·0	66·9	64·5	9·0	14·1	5·8	+ 0·1	SW	SW	0·0	0·0	0·0	120	0·00
2	In Equator	29·709	72·8	56·9	63·[illegible]	54·[illegible]	96·0	52·[illegible]	67·5	64·9	9·0	12·6	3·2	+ 1·5	SW	SW	3·0	0·0	0·3	145	0·06
3	..	29·628	72·0	53·7	61·7	55·2	97·5	48·0	67·9	64·[illegible]	8·5	13·5	3·6	— 0·4	SW	SW	0·0	0·0	0·0	135	0·00
4	Last Qr.	29·592	71·0	53·9	60·6	54·5	97·0	49·[illegible]	66·1	65·3	6·1	11·4	5·0	— 1·5	SW	W	2·0	0·0	0·2	160	0·02
5	..	29·892	72·0	55·0	60·6	50·2	96·[illegible]	49·5	67·9	65·2	10·4	16·1	7·0	— 1·5	NW	Calm	0·0	0·0	0·0	50	0·00
6	..	29·902	70·5	48·3	59·[illegible]	53·[illegible]	97·[illegible]	40·5	67·4	65·2	6·3	12·3	5·1	— 2·7	Calm; SW	S	0·0	0·0	0·0	45	0·03
7	..	29·606	75·0	56·8	63·4	58·3	97·0	55·0	67·4	65·2	5·1	12·6	1·6	+ 1·4	Calm	SW	0·0	0·0	0·0	145	0·40
8	..	29·552	71·0	55·7	61·4	55·8	92·0	42·5	66·9	64·7	5·6	10·9	2·0	— 0·5	SW	W	0·0	0·0	0·0	125	0·35
9	[illegible]	29·747	67·5	55·2	58·8	51·6	80·0	..	66·9	64·7	7·2	13·1	5·2	— 3·0	NW	SW; NW	0·0	0·0	0·0	45	0·01
10	..	29·[illegible]80	72·2	47·6	60·1	49·9	71·0	43·0	67·3	64·[illegible]	10·2	15·6	4·0	— 0·7	SW	Calm	0·0	0·0	0·0	10	0·00
11	..	30·[illegible]4	73·[illegible]	55·[illegible]	63·[illegible]	58·1	88·0	49·2	66·9	64·7	5·6	11·0	4·3	+ 2·0	Calm	Calm	0·0	0·0	0·0	20	0·00
12	New	30·[illegible]0	69·0	53·5	59·9	57·6	74·0	48·5	66·9	64·7	2·3	6·0	0·6	— 1·7	W	NE; Calm	0·0	0·0	0·0	35	0·02
13	Apogee	30·144	72·0	48·7	59·2	50·6	91·5	43·8	66·9	64·[illegible]	8·6	13·8	5·1	— 2·2	NNE	N	0·0	0·0	0·0	85	0·00
14	..	30·079	70·3	47·3	59·9	52·1	88·5	43·5	66·9	64·[illegible]	7·8	10·7	5·3	— 1·4	W	N	0·0	0·0	0·0	80	0·00
15	..	30·125	71·0	58·5	63·3	54·8	93·5	56·2	66·9	64·3	8·5	13·8	5·0	+ 2·0	NW	N	0·0	0·0	0·0	85	0·00
16	In Equator	30·173	72·0	55·1	65·3	55·5	100·0	45·1	66·9	64·5	9·8	17·4	4·9	+ 4·2	NW	N; Calm	0·0	0·0	0·0	45	0·00
17	..	30·160	75·5	51·5	64·2	55·9	96·0	40·0	67·1	64·5	8·3	13·1	6·6	+ 3·2	Calm	Calm	0·0	0·0	0·0	35	0·00
18	..	29·022	76·8	51·9	65·4	54·8	98·0	49·0	67·2	65·7	10·6	17·3	3·4	+ 4·6	SE	SE	0·0	0·0	0·0	155	0·00
19	..	29·634	75·0	50·3	64·4	56·1	95·0	52·0	67·[illegible]	66·2	8·3	12·6	7·9	+ 3·7	S; W	SW	4·0	0·0	0·3	200	0·00
20	First Qr.	29·760	67·0	57·4	60·9	57·7	74·5	52·0	68·4	66·2	3·2	6·0	2·2	+ 0·3	SW	SW	4·0	0·0	0·5	260	0·04
21	..	29·770	72·8	57·5	63·2	51·1	..	50·0	68·4	65·5	12·1	15·9	10·1	+ 2·8	W	W	3·0	0·0	0·3	175	0·00
22	..	29·893	73·5	50·3	62·5	52·6	103·0	39·5	67·4	64·[illegible]	9·9	16·1	5·0	+ 2·2	W	W; Calm	0·0	0·0	0·0	80	0·00
23	[illegible]	29·702	76·0	56·1	64·5	57·0	93·5	51·5	67·4	65·2	7·5	14·7	3·2	+ 4·3	Calm	SE	3·0	0·0	0·1	105	0·01
24	..	29·708	73·2	58·7	64·6	59·0	92·0	42·0	67·4	66·0	5·6	10·2	2·7	+ 4·6	SW	SSW	0·0	0·0	0·0	155	0·14
25	..	29·8[illegible]7	72·3	50·5	60·4	49·6	97·0	41·8	67·4	65·6	10·8	15·0	4·4	— 0·5	SW	S	0·0	0·0	0·0	140	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
June 28	o	w	o, h	3, ci.-cu, ci : o
29	w	w	o	o : 10, s, ci, li.-cl
30	o	w	o	5, ci : o
July 1	m	m	v	v, ci, ci.-s
2	m	m	10	10, h.-sh.-r : 10
3	o	o	v, h	v, ci : 10
4	o	o	10, m.-r	5, ci.-cu : o
5	o	o	3, li.-cl, h	3, li.-cl
6	o	o	10 : o	o
7	w	w	10	10 : o
8	o	o	o	o
9	w	w	10 : sl.-r	10 : l, t, h.-r
10	w	w	3	10 : sl.-r
11	w	w	10, h.-r	10, sl.-r
12	o	o	10, ci.-cu, ci.-s	v
13	w	o	o	o
14	w	m	10, l, t, sl.-r : o	5, cu, ci.-cu : o
15	w	m	5, cu.-s, ci.-s, li.-cl	5, cu.-s, ci.-s : 10
16	s N	s N	10, r	10, r
17	m	s	10, cu.-s, ci.-s	10
18	s, sps	w	3, ci.-cu, ci.-s : 7	7, ci.-cu, ci
19	s N, s P, sps	s N, s P, sps	10, r	10, t, r : o
20	m	m	10, ci.-cu, ci	v, ci.-s
21	m	s	10	10 : o
22	m	s	10 : o	o : h
23	o	s	10, h	10
24	o	o	10, r	10, r : 7
25	o	s, sps	10, r	v, t, shs.-r
26	m	s, sps	10	10, r : v
27	m	s N, s P, sps, g cur	v	v, n, sl.-r
28	m	s	7, shs.-r	7
29	m	m	7, ci.-cu, ci.-s, li.-cl, h	7, cu, s, ci.-s
30	s, sps	s	5, cu, ci.-s, li.-cl	5, cu, ci.-s, li.-cl : 10, r
31	m	m	10, r	10, r
Aug. 1	s	m	7, ci.-cu	4, cu
2	w	w	o	v, cu, cu.-s, ci.-s, li.-cl, r
3	w	w	5, ci.-cu	10, cu, ci.-cu, ci.-s
4	m	w : s	v, ci.-cu : sh.-r	v
5	w	o	7, cu.-s, ci.-s, li.-cl	7, cu, cu.-s, ci.-s
6	m	10	10, th.-r	10 : oc.-r
7	o	s N, sps, g cur	7, cu.-s, ci.-s, r	7, cu.-s, ci.-s, r : 10, t, h.-shs.-r
8	w	w	10, r	v, t, shs.-r
9	w	w	10 : li.-shs.-r	o
10	s	m	10, cu, f	10, : ci.-cu, h
11	s	s	10, ci.-cu	10 : 4, li.-cl, f
12	s	s	10	10, fr.-shs : o
13	s	s	7, ci.-cu, li.-cl	7 : o
14	s, sps	m	v	v : 10
15	s	m	7	7, ci.-cu, cu.-s : o
16	s	m	o	o
17	m	m	o, h	10 : o
18	m	s, sps	o	o : 10
19	s	s	10, s, ci.-s, li.-cl	10, sl.-r
20	w	w	10, r	10 : v
21	w	w	5, cu.-s	5, cu.-s, ci, cu.-s : o
22	m	w	5, ci.-cu, ci.-s	5 : 10
23	w	w	7	7 : v, t, h.-shs.-r
24	w	w	10, cu, ci.-cu, ci.-s, sl.-r	10, cu.-s, ci.-s
25	m	s	7	7, cu, ci.-cu, li.-cl : 2, lu.-ha

MONTH and DAY, 1855.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dew Point. Mean Daily Value.	Mean Daily Value.	Highest Solar Temperature in the Sun's Rays at 1 P.M.	Lowest Temperature on the Surface of Grass during the Night.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read off at 9 A.M. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read off at 9 A.M. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Weather. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9 P.M.
		in.															lbs.	lbs.	lbs.	miles	in.
Aug. 26	..	29·963	72·3	51·2	59·8	47·9	100·0	40·5	66·8	65·6	11·9	19·3	6·3	0·0	SW	SW	0·0	0·0	0·0	155	0·00
27	Perigee Full	29·813	72·0	58·7	63·2	54·1	87·0	41·0	66·0	65·2	9·2	13·7	5·0	+ 3·6	SW	S	0·0	0·0	0·0	165	0·00
28	..	29·694	79·0	57·9	66·3	56·2	102·0	53·0	66·6	65·0	10·1	17·7	5·9	+ 6·8	S	SW	0·0	0·0	0·0	140	0·00
29	In Equator.	29·653	74·5	52·3	62·1	53·3	104·0	41·0	66·7	65·2	8·8	16·5	3·8	+ 2·8	SW; W	W; S	0·0	0·0	0·0	65	0·00
30	..	30·146	75·3	47·3	60·0	51·0	99·0	36·5	66·9	64·9	9·0	17·3	3·6	+ 0·8	Calm	SE; Calm	0·0	0·0	0·0	35	0·00
31	..	30·087	75·4	49·5	61·5	53·0	99·5	38·0	66·8	64·7	8·5	18·8	4·0	+ 2·5	Calm	S; Calm	0·0	0·0	0·0	75	0·00
Sept. 1	..	30·212	68·0	47·8	57·8	51·4	89·0	37·5	66·6	64·7	5·9	10·2	4·2	— 1·6	NE	NE	2·0	0·0	0·2	180	0·00
2	..	30·113	63·0	48·0	54·9	45·7	77·0	37·0	66·1	63·7	9·2	12·6	4·6	— 3·9	NE	NE	3·5	0·0	0·6	175	0·00
3	Last Qr.	29·947	68·2	46·8	57·1	49·9	83·0	41·5	66·1	62·5	7·2	12·2	2·4	— 1·4	NE	NE	2·5	0·0	0·1	80	0·00
4	..	29·852	73·3	51·7	60·3	54·0	97·0	..	65·7	62·5	6·3	13·1	2·7	+ 1·9	NE	NE	0·0	0·0	0·0	80	0·00
5	Greatest Declination N.	29·895	64·5	47·7	55·2	45·2	75·0	..	65·4	61·9	10·0	15·8	6·1	— 3·1	NE	N	3·0	0·0	0·3	145	0·00
6	..	30·157	63·0	42·7	51·9	43·9	83·5	45·9	64·9	60·7	8·0	14·0	5·7	— 6·1	N	N	3·0	0·0	0·0	90	0·00
7	..	30·316	69·0	42·7	54·3	44·5	92·0	35·0	64·1	59·7	9·8	16·0	5·5	— 3·6	N	Calm	0·0	0·0	0·0	35	0·00
8	..	30·201	75·0	37·7	56·5	44·5	99·5	29·8	63·9	58·7	12·0	19·7	5·8	— 1·3	Calm	Calm; SE	0·0	0·0	0·0	85	0·00
9	Apogee	30·016	68·0	43·8	55·0	50·2	83·0	36·5	62·4	58·7	4·8	8·0	2·9	— 2·5	S	N; Calm	0·0	0·0	0·0	85	0·00
10	..	29·981	70·7	42·5	55·3	48·5	92·5	34·9	61·9	58·3	6·4	11·5	3·2	— 2·1	Calm; NNE	NNE	0·0	0·0	0·0	35	0·00
11	New	29·960	71·0	43·8	57·6	49·8	94·0	27·0	61·9	57·7	7·8	12·4	5·3	+ 0·3	Calm; NE	NNE	0·0	0·0	0·0	35	0·00
12	In Equator	30·023	72·0	47·6	58·6	51·3	94·0	38·0	61·9	58·2	7·6	15·0	4·0	+ 1·9	Calm; N	N; NW	0·0	0·0	0·0	65	0·00
13	..	29·811	70·0	49·7	58·3	57·2	81·5	38·9	61·9	58·7	1·1	7·0	1·0	+ 1·5	SSW	W	0·0	0·0	0·0	110	0·22
14	..	29·850	69·0	51·0	54·7	46·1	61·5	48·7	61·4	58·7	8·6	17·7	4·2	— 2·0	Calm; NE	NE	0·0	0·0	0·0	60	0·24
15	..	29·974	63·0	43·1	52·5	47·5	81·0	36·5	61·4	58·7	5·0	10·1	1·0	— 4·0	Calm; SW	SW	0·0	0·0	0·0	50	0·00
16	..	29·938	68·2	52·7	59·2	52·9	88·0	46·0	61·1	58·7	6·3	7·5	2·9	+ 2·9	WSW	WSW	0·0	0·0	0·0	110	0·00
17	..	29·916	60·2	53·5	55·0	54·0	61·0	54·2	60·9	58·7	1·0	1·3	0·0	— 1·1	Calm	Calm	0·0	0·0	0·0	10	0·05
18	..	29·823	68·0	54·9	60·3	55·3	76·2	55·0	61·1	58·7	5·0	9·6	1·7	+ 4·4	Calm; SW	Calm	0·0	0·0	0·0	25	0·00
19	First Qr.	29·872	70·7	55·7	60·8	57·2	76·0	51·9	61·5	58·7	3·6	9·3	0·8	+ 5·0	Calm; NE	NE; Calm	0·0	0·0	0·0	45	0·00
20	Greatest Declination S.	30·034	73·0	49·3	60·6	53·6	90·0	42·2	61·9	58·7	7·0	13·8	1·7	+ 5·1	Calm; SW	SW; Calm	0·0	0·0	0·0	60	0·00
21	..	30·149	75·0	46·3	61·2	55·4	75·0	42·5	62·4	59·5	5·8	11·1	0·8	+ 5·8	Calm; W	W; Calm	0·0	0·0	0·0	20	0·00
22	..	30·149	74·0	48·3	59·9	54·1	96·0	42·0	62·9	59·9	5·9	13·1	1·3	+ 4·6	Calm; NE	E; Calm	0·0	0·0	0·0	45	0·00
23	..	30·143	78·2	46·8	62·5	55·6	96·5	45·0	63·4	59·9	6·9	13·1	1·4	+ 7·5	Calm; NE	NE	0·0	0·0	0·0	90	0·00
24	Perigee	30·330	64·0	46·0	53·5	47·5	75·0	49·3	63·1	59·7	6·0	12·9	3·6	— 1·3	NE	NE; Calm	0·0	0·0	0·0	90	0·00
25	Full	30·275	67·0	45·5	53·7	45·3	89·0	34·8	62·9	59·7	10·4	15·8	4·8	— 1·0	Calm; E	ESE	0·0	0·0	0·0	70	0·00
26	In Equator	30·062	65·0	38·0	50·7	41·7	86·0	28·9	62·1	59·5	9·0	17·2	1·0	— 3·7	Calm; SE	SE; Calm	0·0	0·0	0·0	50	0·00
27	..	29·759	73·0	34·1	54·2	46·4	94·0	27·5	61·3	58·7	7·8	16·7	0·0	— 0·1	Calm	SSW	0·0	0·0	0·0	100	0·00
28	..	29·432	67·1	58·7	61·5	56·4	83·0	52·1	61·1	58·9	5·1	7·8	2·2	+ 7·5	SW	SW	2·0	0·0	0·1	130	0·17
29	..	29·431	67·0	57·7	60·2	57·3	73·8	53·2	60·9	58·9	2·9	7·7	1·3	+ 6·8	SW	SE	0·0	0·0	0·0	50	0·20
30	..	29·346	69·0	54·2	59·2	54·0	80·0	47·8	61·1	59·2	5·2	10·8	1·2	+ 5·7	SE	SE	0·0	0·0	0·0	50	0·24
Oct. 1	Greatest Declination N.	29·391	66·8	50·9	56·6	49·7	84·0	46·5	61·1	58·7	6·9	10·9	2·0	+ 3·3	SW	SW	0·0	0·0	0·0	120	0·10
2	Last Qr.	29·532	63·0	47·2	54·1	50·9	70·0	39·5	60·9	58·7	3·2	8·3	2·0	+ 1·0	SW	W	0·0	0·0	0·0	90	0·02
3	..	29·508	56·8	44·7	54·0	54·0	62·5	38·9	61·4	58·6	0·0	1·9	0·4	+ 1·2	S	S	0·0	0·0	0·0	100	0·15
4	..	29·191	65·5	52·9	58·1	53·9	79·0	55·0	61·1	58·7	4·2	7·1	2·0	+ 5·5	SW	SW	3·0	0·0	0·4	190	0·30
5	..	29·246	63·5	51·1	55·4	52·6	73·0	49·0	60·9	58·7	2·8	5·6	1·4	+ 3·0	SW	SW	3·5	0·0	0·5	125	0·42
6	..	29·212	64·5	48·7	56·3	49·7	79·5	42·5	60·4	59·3	6·6	10·5	4·0	+ 4·0	SW	SSW	0·0	0·0	0·0	160	0·15
7	Apogee	29·201	62·0	50·0	55·2	48·6	73·5	45·0	60·4	59·3	6·6	10·4	1·5	+ 3·2	SE; SW	SW; Calm	0·0	0·0	0·0	95	0·16
8	..	29·368	65·0	46·8	54·3	49·5	86·0	39·9	59·9	57·5	5·0	9·9	0·2	+ 2·7	SW	SW	1·5	0·0	0·0	80	0·01
9	..	29·387	62·0	43·9	51·3	48·4	86·0	37·2	59·9	57·2	2·9	8·1	0·0	— 0·2	Calm	NW	1·0	0·0	0·0	120	0·00
10	In Equator	29·615	53·0	42·7	46·4	45·2	67·9	38·0	59·9	56·7	9·2	14·1	4·6	— 4·9	NE	NW	3·0	0·0	0·3	160	0·07
11	New	29·498	58·0	43·7	51·6	48·8	62·5	34·2	59·4	55·9	2·8	5·1	1·9	+ 0·6	W	NW	5·0	0·0	1·1	250	0·05
12	..	29·496	62·0	52·9	55·8	53·1	68·5	51·0	58·9	55·3	2·7	4·9	1·8	+ 5·0	NW	NW	4·5	0·0	0·4	150	0·10
13	..	29·553	59·0	43·6	50·6	42·0	78·0	34·8	58·1	54·7	8·6	13·3	3·9	0·0	NW	W; SW	0·0	0·0	0·0	70	0·00
14	..	29·375	53·2	44·7	48·3	46·1	62·0	38·0	57·4	54·5	2·2	4·0	0·0	— 2·1	Calm	Calm	0·0	0·0	0·0	35	0·01
15	..	29·382	56·5	36·8	45·8	41·7	70·5	35·2	56·9	53·9	4·1	10·3	0·7	— 4·4	Calm; W	Calm; NW	0·0	0·0	0·0	30	0·07
16	..	29·620	59·0	38·4	47·6	42·8	77·5	31·4	56·5	53·7	4·8	8·6	2·2	— 2·3	W	W; S	0·0	0·0	0·0	15	0·00
17	Greatest Declination S.	29·637	64·8	46·9	54·1	51·0	84·0	38·8	55·9	52·7	3·1	10·2	0·4	+ 4·3	Calm	SE; NE	0·0	0·0	0·0	10	0·45
18	First Qr.	29·794	56·0	45·0	49·3	46·2	72·5	45·0	55·4	52·9	3·1	7·4	0·0	— 0·2	NE; NW	W	0·0	0·0	0·0	50	0·00
19	..	29·964	61·0	45·7	52·2	46·8	79·0	36·0	55·4	52·7	5·4	11·0	0·7	+ 2·9	W	NW	0·0	0·0	0·0	85	0·01
20	..	30·069	63·0	46·3	53·7	48·5	83·0	37·0	54·9	52·7	5·2	9·7	3·2	+ 4·7	NW	NW	2·0	0·0	0·1	210	0·00
21	..	29·980	61·0	52·4	56·9	54·4	65·0	46·0	54·9	52·7	2·5	5·2	1·0	+ 8·1	NW	NW	3·5	0·0	0·9	85	0·00
22	..	30·051	63·0	50·5	55·1	53·7	73·5	43·2	55·1	52·7	1·4	4·1	0·0	+ 6·4	SW; Calm	SW	0·0	0·0	0·0	40	0·03
23	Last In Equator	29·772	61·0	53·5	55·8	54·8	64·5	50·0	54·9	52·7	1·0	5·2	0·0	+ 7·4	WNW	WNW	3·0	0·0	0·1	120	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Aug. 26	w	m	o	o
27	w	w	10	10 : 8, ci.-cu
28	w	m	o	7 : o
29	s	v	o	4, cu, ci.-cu, ci.-s : o
30	v	m	o	o
31	s	s	7	o
Sept. 1	v	v	5, cu, ci.-cu, li.-cl	10 : o
2	s	m	10	10
3	w	v	7	7, cu : o
4	m	m	10	10, ci.-s : v
5	w	o	10, sl.-r	5 : v
6	m	m	v, cu, ci.-cu, sc	v
7	w	w	3, cu, ci.-cu : o	4 cu, ci.-s : o
8	s	s	o, f	o
9	w	o	10, f	10 : o
10	o	s	o	o : 10 : o
11	w	w	o, h	8, cu, ci.-cu, sc, : v, s
12	s	w	o, h	o
13	w	w	10, r	5 : 10, sl.-r
14	o	w	10, r	10 : m.-r
15	w	w	10	10 : o
16	s	o	10	10 : th.-r
17	o	o	10, th.-r	10, th.-r : f
18	s	s	10	10
19	v	w	8, f	8, cu.-s, ci.-cu : o, f
20	s	v	o, h	o, h
21	o	s	o	o : f
22	m	m	10, f : o	o
23	m	m	o	o : v, ci.-s
24	w	s	10	10 : o
25	m	m	10 : cu.-s, ci.-cu	8 : o
26	s	w	o, h	o
27	v	w	o, f	o : 10, sl.-r
28	o	o	10	10 : l, r, l.-shs.-r
29	o	o	8, sl.-r : 10	10 : l, h.-r
30	m	w	10, r	10 : h, shs.-r
Oct. 1	w	s	10 : h.-sh.-r	10, li.-shs.-r : o
2	w	s	10, f	10, h : o
3	s	o	10, shs.-r	10, r
4	o	s N, s P, sps, g cur	10, r	10, r : o, a
5	w	s N, sps, g cur	10, cu, ci.-cu, h.-shs.-r	10, cu, ci.-cu, h-.shs.-r
6	o	w	7, cu, ci.-cu, sc, r	10 : o : 10, shs.-r
7	m	s	10, h.-r : v	v : f
8	m	s, sps	7, r : o	o : l
9	s	s	10, f	10
10	w	w	10, ci.-cu, r : 5	5, cu, ci.-s, sc : v
11	o	o	10, r	9, r : 10
12	w	o	10, r	10, fr.-shs.-r
13	o	o	4	4, cu, ci.-cu, sc : v
14	o	o	10, ci.-s, r	10 : v
15	s	s	7, li.-cl, f	7, r, f : 10
16	s	s, sps	5	5, cu : 10, a
17	s	v	10, ca	v : 1
18	w	s	10	9 : o, a
19	s	s	3, cu, li.-cl	3 : o
20	s	v	o : 6, ci.-cu	6, ci.-cu, ci.-s, lu.-co
21	w	s	10	10 : m.-r
22	s	s	10, r, f	10 : v, ci.-cu, ci.-s, r
23	m	m	10	10

MONTH and DAY, 1855.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dew Point Mean Daily Value.	Mean Daily Value.	Highest Sun-heat as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 25 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Weld's Gauge. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in	°	°	°	°		°			°	°					lbs	lbs	lbs	miles	in.
Oct. 24	..	29·870	56·0	40·6	46·2	37·2	71·2	31·2	55·1	52·7	9·0	14·6	2·9	— 2·0	NNW	NNW	4·0	0·0	0·4	160	0·00
25	Full	29·688	53·2	39·9	48·1	43·7	57·0	30·5	54·9	52·7	4·4	6·2	1·2	+ 0·2	NW ; W	SW	14·0	0·0	1·8	235	0·05
26	..	29·037	54·0	43·3	48·4	46·6	58·0	49·0	54·4	51·9	1·8	3·9	0·0	+ 0·7	SW	SW	10·0	0·0	2·7	110	0·47
27	..	29·341	50·5	35·3	41·1	39·7	66·6	..	53·1	50·7	1·4	5·7	0·0	— 6·4	SW	Calm	0·0	0·0	0·0	30	0·05
28	..	29·577	53·0	35·0	43·9	41·8	70·0	..	53·1	50·7	2·1	8·4	0·0	— 3·4	N	N	0·0	0·0	0·0	70	0·00
29	..	29·266	51·0	39·8	45·5	45·5	53·0	..	52·9	50·2	0·0	1·5	0·0	— 1·5	N	N	0·0	0·0	0·0	80	0·60
30	Greatest Declination N.	28·993	51·5	45·1	49·3	49·5	58·0	..	52·9	49·7	0·0	0·2	0·0	+ 2·7	N by E	N ; E	0·0	0·0	0·0	20	1·06
31	..	29·314	50·0	42·6	45·9	45·2	51·0	..	52·1	49·2	0·7	0·8	0·0	— 0·6	N	N	5·0	0·0	0·4	165	0·60
Nov. 1	Last Qr.	29·551	43·1	34·5	37·5	32·7	55·0	..	50·9	47·9	4·8	7·4	4·2	— 8·8	N	N ; W	3·0	0·0	0·2	110	0·00
2	..	29·581	43·0	30·3	37·4	35·1	45·0	..	49·7	45·9	2·3	5·5	0·2	— 8·7	WSW	NW ; W	3·5	0·0	0·2	170	0·27
3	Apogee	29·624	45·2	37·7	39·8	38·1	48·0	35·0	48·1	44·2	1·7	2·9	0·0	— 6·1	N	NE	4·0	0·0	0·7	130	0·50
4	..	29·928	48·2	34·7	42·3	39·4	60·5	27·0	47·4	42·7	2·9	4·6	0·0	— 3·4	N	N	0·0	0·0	0·0	40	0·00
5	..	30·076	48·0	31·2	39·6	37·4	58·0	27·5	45·9	42·2	2·2	6·4	0·0	— 5·8	N ; SW	SW	0·0	0·0	0·0	75	0·01
6	In Equator	29·961	58·0	43·3	50·2	46·0	71·0	35·0	44·9	41·7	4·2	8·6	1·8	+ 5·0	SSW	S	0·0	0·0	0·0	140	0·01
7	..	29·678	54·0	45·7	49·4	44·3	59·0	44·0	43·9	41·5	5·1	6·6	3·7	+ 4·5	S	S	0·0	0·0	0·0	160	0·02
8	..	29·429	49·1	43·0	45·7	44·8	50·0	41·0	44·9	41·7	0·9	2·9	0·0	+ 0·0	S	S	0·0	0·0	0·0	105	0·21
9	New	29·679	55·0	36·9	46·3	44·5	65·5	31·0	45·9	42·5	1·8	6·8	0·7	+ 1·8	S ; Calm	SSE ; E	0·0	0·0	0·0	5	0·01
10	..	29·786	56·0	43·5	48·4	46·6	65·0	37·0	46·9	42·9	1·8	5·0	0·0	+ 4·1	SE ; Calm	SSW ; S	0·0	0·0	0·0	40	0·07
11	..	30·081	57·0	43·5	49·6	44·6	71·0	32·5	47·4	43·7	5·0	7·4	3·3	+ 5·6	S	S	0·0	0·0	0·0	10	0·01
12	..	30·041	49·8	43·7	46·4	44·1	55·0	42·0	48·4	44·9	2·3	3·5	1·2	+ 2·7	Calm	Calm	0·0	0·0	0·0	5	0·00
13	Greatest Declination S.	29·871	47·0	40·5	42·8	39·7	47·0	43·0	48·7	45·7	3·1	5·0	1·7	— 0·6	NE	NE	0·0	0·0	0·0	10	0·00
14	..	29·840	45·0	37·3	40·1	36·5	50·5	36·3	48·9	45·7	3·6	6·7	2·0	— 3·1	N	Calm	0·0	0·0	0·0	35	0·00
15	..	30·002	41·0	28·5	34·3	32·7	41·0	20·5	49·1	45·2	1·6	4·6	0·0	— 8·6	Calm	Calm	0·0	0·0	0·0	..	0·00
16	First Qr.	30·120	42·0	25·7	35·3	34·3	43·5	21·0	48·9	44·7	1·0	4·6	0·0	— 7·5	Calm	NE	0·0	0·0	0·0	10	0·01
17	..	30·090	44·5	36·5	41·3	38·7	48·3	30·0	47·4	44·7	2·6	5·1	1·9	— 1·2	NE	NE	0·0	0·0	0·0	20	0·00
18	..	30·041	46·5	41·3	44·4	42·6	48·5	35·7	47·4	43·7	1·8	3·5	0·9	+ 2·0	NE	NE	0·0	0·0	0·0	100	0·00
19	Perigee In Equator.	29·933	46·0	39·0	40·1	39·9	48·0	..	46·1	42·9	0·2	2·1	0·0	— 2·1	NE	NE	0·0	0·0	0·0	70	0·06
20	..	29·870	41·0	37·5	39·1	37·8	41·0	..	46·9	43·3	1·3	2·4	0·0	— 2·9	NE	NE	0·0	0·0	0·0	30	0·05
21	..	29·746	40·7	36·2	38·1	37·1	42·0	..	45·9	42·7	1·0	5·0	0·0	— 3·8	NE	N	0·0	0·0	0·0	25	0·01
22	..	29·702	41·2	33·7	37·2	35·2	43·0	..	44·9	42·7	2·0	3·8	1·3	— 4·6	SW	S	0·0	0·0	0·0	70	0·00
23	Full	29·655	43·0	33·9	37·8	36·2	52·0	29·0	44·5	41·7	1·6	3·8	0·3	— 3·9	SW	WSW	0·0	0·0	0·0	75	0·00
24	..	29·737	42·5	37·0	38·9	37·1	43·0	35·0	44·4	41·5	1·8	2·4	1·5	— 2·7	N	NE	0·0	0·0	0·0	120	0·05
25	..	30·039	43·0	32·5	37·4	33·1	47·0	..	43·9	41·5	4·3	7·2	2·5	— 4·3	NE	NE	3·5	0·0	0·3	105	0·00
26	Greatest Declination N.	30·139	45·4	29·1	37·4	34·9	53·0	..	43·7	40·7	2·5	4·8	2·1	— 4·4	ENE	NE	0·0	0·0	0·0	40	0·01
27	..	29·906	46·0	36·7	41·3	38·4	56·0	32·2	43·4	40·7	2·9	6·9	1·4	— 0·6	N	N	0·0	0·0	0·0	55	0·01
28	..	29·951	45·6	37·5	42·0	39·8	47·0	35·8	43·7	40·5	2·2	4·6	1·0	+ 0·1	N	NNE	0·0	0·0	0·0	45	0·01
29	..	29·961	44·3	37·1	40·7	34·7	48·0	29·8	43·1	40·5	6·0	7·6	4·2	— 1·2	N	N ; W	0·0	0·0	0·0	35	0·00
30	..	29·897	44·0	36·1	39·2	35·4	47·0	32·8	42·9	40·5	3·8	7·2	1·8	— 2·6	N ; W	NW	0·0	0·0	0·0	40	0·00
Dec. 1	Last Quarter, Apogee	29·888	42·7	32·3	38·4	35·6	43·0	22·0	43·3	40·7	2·8	6·2	1·7	— 3·3	SW	SW ; N	0·0	0·0	0·0	35	0·00
2	..	29·707	43·0	35·3	39·1	35·7	48·0	31·5	42·9	40·9	4·4	6·2	3·3	— 2·5	N	N	0·0	0·0	0·0	50	0·05
3	In Equator	29·886	38·8	28·5	33·2	28·2	47·0	19·5	42·9	40·7	5·0	8·1	1·8	— 8·3	NE	SW	0·0	0·0	0·0	55	0·01
4	..	29·716	45·1	29·8	40·1	38·2	46·5	20·0	42·4	40·9	1·9	5·5	0·7	— 1·3	SW	SW	0·0	0·0	0·0	160	0·01
5	..	29·401	45·1	33·1	38·5	31·5	46·0	33·2	41·9	40·5	7·0	10·8	5·5	— 2·8	SW ; NW	W	0·0	0·0	0·0	160	0·00
6	..	29·285	39·8	30·7	36·0	27·2	43·0	24·5	41·9	39·7	8·8	11·3	3·6	— 5·1	NW	NW	7·0	0·0	1·2	215	0·00
7	..	29·390	37·2	30·0	33·7	28·5	38·5	21·0	41·9	38·7	5·2	8·3	3·4	— 7·3	NW	NW	0·0	0·0	0·0	125	0·00
8	..	29·563	36·0	28·9	32·1	30·2	39·0	25·0	41·1	38·2	1·9	4·8	0·3	— 8·7	N	NE	0·0	0·0	0·0	55	0·16
9	New	29·915	32·2	24·8	29·2	27·7	38·5	16·0	40·7	37·7	1·5	3·3	0·0	—11·6	NE ; N	NNE	0·0	0·0	0·0	60	0·00
10	Greatest Declination S.	29·942	34·2	29·9	32·4	31·5	36·0	29·0	39·4	36·2	0·9	2·5	0·0	— 8·2	NNE	N	0·0	0·0	0·0	50	0·00
11	..	29·876	32·8	28·3	30·3	28·5	35·0	24·0	39·1	35·7	1·8	2·0	0·0	—10·2	Calm	WSW	0·0	0·0	0·0	10	0·00
12	..	29·630	34·5	25·2	29·3	27·8	38·0	22·0	38·9	35·7	1·5	3·4	0·0	—11·0	SW	Calm	0·0	0·0	0·0	..	0·00
13	..	29·949	34·0	21·3	27·2	22·9	39·0	12·4	38·4	35·5	4·3	6·2	1·2	—13·0	Calm	W	0·0	0·0	0·0	55	0·00
14	Perigee	29·797	44·3	25·1	36·4	35·1	42·0	14·5	37·9	34·7	1·3	5·8	0·0	— 3·6	SW	WNW	3·0	0·0	0·2	160	0·07
15	..	30·012	48·0	39·9	44·2	40·7	50·0	32·0	37·4	33·7	3·5	5·5	1·2	+ 4·4	NW	W	0·0	0·0	0·0	50	0·00
16	First Qr.	30·117	42·0	33·5	38·2	35·4	45·0	25·0	37·4	34·7	2·8	4·8	1·6	— 1·4	SW	Calm	0·0	0·0	0·0	25	0·00
17	In Equator	29·938	40·0	30·5	33·8	33·3	40·0	24·0	38·4	35·7	0·5	2·8	0·0	— 5·6	Calm	NE	0·0	0·0	0·0	75	0·00
18	..	30·023	41·5	26·5	34·3	31·2	44·0	24·7	38·9	35·7	3·1	6·3	2·1	— 5·0	E	E	4·5	0·0	1·0	215	0·00
19	..	30·141	30·5	21·1	25·2	11·2	38·0	14·5	37·9	33·9	14·0	22·2	7·3	—13·9	E	E	3·5	0·0	0·5	110	0·00
20	..	29·932	30·1	20·3	24·4	0·3	42·5	11·0	36·9	32·7	24·1	27·4	17·0	—14·5	E	ESE	0·0	0·0	0·0	110	0·00
21	..	29·644	23·2	17·0	20·2	5·7	25·5	7·0	35·4	31·7	14·5	18·7	12·8	—18·5	ESE	E	0·0	0·0	0·0	50	0·00

MONTH and DAY, 1855.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Oct. 24	s	s	3, cu, li.-cl : o	o : lu.-co
25	m	s	10	10 : 8, m.-r
26	s, **N**	s, **P**, sps, g cur	10, r	10, h.-r : o
27	s, sps	s, sps	10 : so.-ha	10 : o
28	s	s	3 : 10	10
29	w	o	10, r	10, r
30	s, **N**	w, **N**	10, r	10, r
31	o	s, **N**	10, r	10, r
Nov. 1	o	s	10	3 : o, f
2	m	s, sps	10, f	10 : r
3	s, **N**, sps, s, **P**	s, **P**	10, r	10, h.-shs.-r : 10 r, f
4	s	s, sps	10, ci.-cu, ci.-s, s	7, s, ci.-s, li.-cl : 10, h
5	s, sps	s, **N**, s, **P**	10, h	10 : r
6	s	s	3, ci-s, ci	3, cu, ci.-cu : o
7	w	w	10	10 : 5, sl.-r
8	w, **N**	s, sps	10, th.-r	10, h.-r : o
9	s	s, sps	10, cu, ci.-cu, ci.-s, v	v, s
10	w	s, sps	10, r	10 : o
11	s	s	o	10
12	s	s	10, f	10
13	m	s	10	10
14	s	s, **P**, s, **N**	10 f, : 10 : 9	10 : v, f
15	s	s, sps	o, h : 10	10, f,
16	s, sps	s, sps	10, f	10
17	s, sps	s, sps	o	10
18	s	s	10	10, r
19	w	w	10 th.-r	10, th-r
20	w	w	10, th.-r	10
21	m	s	10	10 : th.-r
22	m	s	o : v	v : 10, ci.-cu, ci.-s, s
23	m	s	7, h : 10	10
24	w	s, sps	10, ci.-cu, li.-cl, r	10
25	s	s, sps	v, ci.-cu, ci. s, r	v : o
26	s, sps	s	10, ci.-cu, ci.-s, sc : 7, ci.-cu	10
27	s	m	10	10, m.-r
28	w	s	10, lu, r	7
29	s	s	10, f	10 : f
30	s, sps	s, sps	10, f	10 : o h
Dec. 1	s, sps	s, sps	10	7, ci.-cu, ci.-s : 10
2	s	s, sps	4, r	4 : f
3	s	m	o : 10	10, ci.-cu, ci.-s, s : sn
4	s, sps	s, sps	10	10 : 8
5	s, sps	s, sps	10, ci.-cu, ci.-s	o
6	m	s	10, sn	10 : o
7	w	w	v, ci.-cu, ci.-s, h	v, ci.-s
8			10, sn	o
9			10, h.-fr	3, ci : 10
10			10 : sn	10 : sn
11			10	10, sn
12			7	10 : o
13			10, h.-fr	10 : v, f
14			10, r	10, r
15			10	10 : 8, ci.-cu
16			10, f, h.-fr	10, f
17			10, ci.-s	10 : f
18			7, ci.-cu, ci. s, li.-cl	7 cu, ci.-cu : o
19			o	o
20			o	o
21			7, ci, ci.-s	o

December 8 to December 23. The Electrical Apparatus was under repair.

MONTH and DAY, 1855.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest on the Sun, as shown by a Self-Registering Thermometer read at 9 P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9 A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 25 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Weight of Horizontal Movement of the Air in lbs.	Rain in Inches and Hundredths, 9 A.M.
		in.																lbs.	lbs.	lbs.	lbs.	in.
Dec. 22	..	29·779	24·2	16·9	21·5	10·4	25·0	5·1	33·9	31·2	11·1	13·1	8·5	−17·0	NE	Calm ; SW	0·0	0·0	0·0	115	0·00
23	Full Greatest Dec. N	29·461	47·0	24·0	40·2	40·1	49·5	9·0	33·9	31·2	0·1	2·3	0·5	+ 1·8	S ; SW	SSW	5·5	0·0	0·5	210	0·12
24	..	29·555	48·0	39·5	43·2	41·5	54·0	34·0	35·5	34·7	1·7	9·4	2·6	+ 5·0	SW	SW	3·5	0·0	0·2	165	0·27
25	..	29·426	47·2	39·3	43·2	42·6	53·0	32·5	37·6	35·6	0·6	3·2	0·0	+ 5·2	SW	SW ; Calm	0·0	0·0	0·0	130	0·15
26	..	29·049	49·2	36·9	45·4	42·2	50·0	37·1	37·6	35·6	3·2	6·4	0·2	+ 7·6	SW	SW ; S	9·4	0·0	2·5	325	0·27
27	..	29·464	50·7	42·3	46·6	44·0	53·5	40·2	40·5	36·1	2·6	4·4	1·3	+ 9·0	SW	SW	0·0	0·0	0·0	130	0·02
28	..	29·543	52·4	42·3	48·1	41·5	56·5	34·0	43·0	38·4	6·6	8·4	4·8	+10·7	SW	SW	3·0	0·0	0·2	195	0·00
29	Apogee	29·836	50·9	42·5	46·6	42·4	55·0	33·0	42·5	39·8	2·4	5·3	1·4	+ 9·3	WSW	SW	2·0	0·0	0·1	165	0·00
30	..	30·078	49·0	38·7	42·9	39·1	49·0	31·8	43·0	41·0	3·8	6·2	2·6	+ 5·9	SW	SW	2·5	0·0	0·0	115	0·10
31	In Equator Last Quarter	30·064	47·0	34·5	40·5	38·3	52·0	30·5	42·9	39·7	2·2	4·8	0·5	+ 3·8	S	SW ; SSE	0·0	0·0	0·0	65	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 22			10	10 : 0 : 10
23			7, r	7 : 10, r
24			0	10, : h.-r
25			10, r	10 : m-r
26			10, r	10, r
27			10	v : ci.-s
28			10, ci.-cu, ci.-s	10, s, ci.-s : v
29			10, ci.-cu, ci.-s	10
30		0	10, r	0
31	m	s	7	0

Maxima and Minima Readings of the Barometer.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
	Approximate Mean Solar Time, 1855.	Reading.		Approximate Mean Solar Time, 1855.	Reading.		Approximate Mean Solar Time, 1855.	Reading.		Approximate Mean Solar Time, 1855.	Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	7. 11. 0	30·404	January	1. 0. 0	29·822	July	21. 23. 10	30·045	July	16. 3. 0	29·373
	12. 9. 0	30·483		9. 0. 0	30·196		29. 1. 20	29·804		24. 3. 0	29·543
	17. 9. 0	30·034		16. 3. 0	29·888	August	5. 8. 30	29·935	August	3. 9. 0	29·364
	24. 21. 0	29·957		20. 9. 0	29·667		12. 21. 0	30·247		7. 21. 0	29·533
February	1. 21. 0	29·924		31. 3. 0	29·307		21. 21. 0	29·921		18. 22. 30	29·588
	9. 3. 0	29·793	February	4. 9. 0	29·149		26. 9. 0	29·973		23. 9. 0	29·622
	17. 22. 45	29·921		14. 0. 0	29·211	September	1. 0. 0	30·210		28. 3. 0	29·679
	23. 21. 0	29·900		20. 3. 0	29·568		6. 21. 0	30·337	September	4. 3. 0	29·834
	28. 9. 0	29·721		24. 22. 30	29·269		24. 9. 0	30·354		13. 9. 0	29·798
March	8. 9. 0	30·014	March	2. 21. 0	28·789	October	2. 9. 0	29·607		30. 9. 0	29·302
	14. 21. 0	29·705		12. 3. 0	28·784		10. 9. 0	29·665	October	4. 3. 0	29·154
	19. 0. 0	29·846		17. 9. 0	29·255		19. 21. 0	30·100		15. 3. 0	29·303
	29. 9. 0	30·352		22. 0. 0	28·756		24. 9. 0	29·960		23. 9. 0	29·698
April	5. 22. 20	30·025	April	3. 9. 0	29·439		28. 8. 30	29·606		26. 0. 0	29·033
	21. 9. 0	30·404		10. 3. 0	29·127	November	4. 21. 0	30·087		30. 0. 0	28·968
May	6. 21. 0	29·841	May	3. 3. 0	29·498		11. 9. 0	30·089	November	8. 3. 0	29·380
	8. 21. 0	29·878		7. 9. 0	29·565		16. 9. 0	30·143		14. 0. 0	29·825
	12. 9. 0	29·744		10. 21. 0	29·257		25. 21. 0	30·203		23. 3. 0	29·649
	17. 21. 0	29·985		13. 10. 20	29·329		28. 9. 0	30·012		27. 3. 0	29·881
June	1. 21. 0	29·897		31. 3. 0	29·361	December	3. 0. 0	29·917	December	2. 0. 0	29·710
	9. 22. 30	30·106	June	6. 3. 0	29·591		9. 9. 0	29·975		6. 0. 0	29·256
	20. 9. 0	30·270		15. 3. 0	29·155		18. 21. 0	30·188		12. 3. 0	29·602
July	1. 21. 0	30·096		29. 9. 0	29·802		22. 9. 0	29·813		21. 9. 0	29·617
	13. 0. 0	29·853	July	10. 21. 0	29·393		30. 9. 0	30·200		26. 3. 0	28·984

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1855.

1855, MONTH.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR. Highest	Lowest	Range in the Month	Mean of all the Highest	Mean of all the Lowest	Mean Daily Range	Mean Temp.	Mean Temp. of Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of air.	Mean additional Weight required to saturate a cubic foot of air.	Mean Degree of Humidity (Complete Saturation = 1).	WIND. Mean weight of a cubic foot of air.	Prevailing Direction.	Mean Daily Pressure in lbs. on each square foot.	Mean Daily Horizontal Movement of the Air in Miles.	Mean Amount of Cloud.	RAIN. Number of Days on which it fell.	Amount collected on the Ground.
	in.										gr.	gr.		gr.		lbs.	miles.			in.
January....	29·998	52·4	16·2	36·2	39·1	31·3	7·8	34·8	31·7	·200	2·4	0·3	·91	538	NE ; SW	0·22	47	8·7	20	1·5
February...	29·593	48·4	11·1	37·3	35·7	24·2	11·5	29·1	26·7	·165	2·0	0·2	·91	557	E ; NE	0·18	64	7·6	11	1·0
March	29·585	57·8	24·5	33·3	46·2	31·9	14·3	37·9	33·6	·212	2·5	0·4	·86	546	NE ; SE	0·25	64	7·8	12	2·0
April	29·933	72·8	25·9	46·9	57·6	36·7	20·9	45·9	38·8	·251	2·9	0·8	·78	544	SW; NE	0·24	96	5·8	4	0·1
May	29·679	81·5	28·3	53·2	59·9	40·5	19·4	49·0	42·3	·284	3·3	0·8	·80	536	NE ; S	0·21	118	7·7	12	1·8
June.....	29·863	83·5	39·3	44·2	68·5	45·7	22·8	58·0	47·8	·348	3·9	1·5	·74	530	SW; NE	0·01	87	6·4	9	0·9
July.....	29·769	79·0	43·7	35·3	73·3	54·1	19·2	62·2	55·5	·444	5·0	1·3	·80	523	SW	0·03	67	7·0	10	5·3
August.....	29·874	79·0	47·3	31·7	72·9	53·7	19·2	62·4	53·9	·423	4·7	1·5	·76	525	SW	0·05	107	5·9	10	1·4
September..	29·966	78·2	34·1	44·1	68·5	47·7	20·8	57·2	50·5	·378	4·3	1·1	·80	532	NE; SW	0·04	75	5·4	6	2·0
October	29·527	66·8	35·0	31·8	58·7	45·2	13·5	51·2	47·8	·346	4·0	0·5	·89	531	SW; NW	0·29	106	7·6	22	5·2
November ..	29·864	58·0	25·7	32·3	46·5	36·8	9·7	41·3	38·5	·250	2·9	0·3	·92	548	NE	0·04	63	8·1	17	1·5
December ..	29·761	52·4	16·9	35·5	40·2	30·9	9·3	35·6	31·3	·178	2·1	0·6	·79	553	SW; NW	0·21	114	6·9	11	1·1
Means	29·780	67·5	29·0	38·5	55·6	39·9	15·7	47·1	42·6	·290	3·7	0·8	·83	540	–	–	–	7·1	Sum 144	Sum 23·8

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·36	50·64	49·90	*S*	48·14	47·78	*S*	48·55	49·48	50·30	51·16	51·48
2	51·33	50·62	49·95	48·88	48·14	47·80	48·00	48·55	*S*	50·41	51·16	*S*
3	51·33	50·60	49·88	48·88	48·17	*S*	48·00	48·55	49·55	50·45	51·20	51·47
4	51·30	*S*	*S*	48·80	48·25	47·85	48·03	48·63	49·58	50·48	*S*	51·49
5	51·31	50·59	49·83	48·87	48·08	47·80	48·05	*S*	49·60	50·50	51·26	51·50
6	51·30	50·53	49·80	Good Friday.	*S*	47·82	48·05	48·68	49·60	50·57	51·33	51·48
7	*S*	50·52	49·75	48·80	48·04	47·80	48·05	48·72	49·65	*S*	51·34	51·46
8	51·21	50·47	49·73	*S*	48·00	47·80	*S*	48·72	49·68	50·60	51·35	51·45
9	51·20	50·40	49·68	48·70	48·00	47·83	48·05	48·67	*S*	50·61	51·37	*S*
10	51·15	50·43	49·64	48·72	48·00	*S*	48·10	48·80	49·75	50·62	51·39	51·40
11	51·12	*S*	*S*	48·65	47·95	47·82	48·10	48·80	49·80	50·66	*S*	51·42
12	51·10	50·38	49·58	48·68	47·95	47·80	48·15	*S*	49·82	50·70	51·40	51·42
13	51·10	50·38	49·60	48·60	*S*	47·80	48·15	48·90	49·85	50·70	51·41	51·40
14	*S*	50·32	49·54	48·60	47·90	47·84	48·15	48·92	49·87	*S*	51·42	51·42
15	51·03	50·34	49·58	*S*	47·90	47·85	*S*	48·95	49·90	50·75	51·42	51·45
16	51·03	50·28	49·52	48·54	47·90	47·85	48·15	48·98	*S*	50·79	51·42	*S*
17	51·00	50·23	49·44	48·52	47·95	*S*	48·20	49·00	49·96	50·82	51·45	51·39
18	50·95	*S*	*S*	48·45	47·90	47·82	48·23	49·50	50·00	50·84	*S*	51·40
19	50·93	50·18	49·38	48·30	47·90	47·83	48·19	*S*	50·04	...	51·45	51·35
20	50·95	50·20	49·35	48·42	*S*	47·83	48·25	49·20	50·10	50·80	51·46	51·34
21	*S*	50·14	...	48·39	47·90	47·85	48·30	49·18	50·13	*S*	51·45	51·30
22	50·86	50·12	49·24	*S*	47·88	47·85	*S*	49·17	50·15	50·95	51·47	51·20
23	50·80	50·23	49·25	48·35	47·90	47·86	48·35	49·20	*S*	50·95	51·48	*S*
24	50·79	50·10	49·18	48·32	47·85	*S*	48·35	49·25	50·20	50·96	51·48	51·35
25	50·82	*S*	*S*	48·28	47·85	47·90	48·36	49·35	50·24	51·00	*S*	Christ. Day.
26	50·74	50·03	49·25	48·26	47·85	47·95	48·40	*S*	50·25	51·00	51·49	51·21
27	50·80	49·97	49·25	48·25	*S*	47·90	48·42	49·34	50·29	51·03	51·50	51·16
28	*S*	50·02	49·05	48·22	47·80	47·95	48·45	49·38	50·32	*S*	51·50	51·26
29	50·75		49·04	*S*	47·80	47·95	*S*	49·40	50·35	51·07	51·50	51·25
30	50·72		49·00	48·16	47·85	48·00	48·50	49·44	*S*	51·19	51·49	*S*
31	50·65		49·05		47·78		48·52	49·47		51·13		

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01 than the monthly mean; in one instance the excess was 0°·2, and in another case it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°		°		°	°		°			°	°
1	49·28	47·52	45·28	*S*	45·12	46·80	*S*	52·47	53·79	54·26	54·26	52·03
2	49·25	47·50	45·20	44·28	45·25	46·92	49·45	52·50	*S*	54·23	54·17	*S*
3	49·19	47·33	45·16	44·28	45·45	*S*	49·52	52·54	54·35	54·24	54·15	51·84
4	49·12	*S*	*S*	44·50	45·50	47·20	49·60	52·65	54·45	54·23	*S*	51·78
5	49·13	47·45	44·95	44·42	45·45	47·15	49·60	*S*	54·45	54·25	54·05	51·70
6	49·08	47·10	44·88	Good Friday.	*S*	47·15	49·75	52·80	54·50	54·96	54·06	51·58
7	*S*	47·04	44·80	44·45	45·56	47·28	49·86	52·75	54·58	*S*	53·98	51·48
8	48·87	46·90	44·75	*S*	45·60	47·35	*S*	52·92	54·65	54·94	53·90	51·58
9	48·78	46·78	44·70	44·23	45·68	47·55	50·15	52·95	*S*	54·91	53·84	*S*
10	48·68	46·70	44·67	44·36	45·75	*S*	50·22	53·05	54·73	54·87	53·77	51·20
11	48·67	*S*	*S*	44·22	45·78	47·57	50·25	53·12	54·77	54·92	*S*	51·19
12	48·63	46·55	44·63	44·40	45·82	47·65	50·43	*S*	54·77	54·91	53·58	51·00
13	48·62	46·55	44·72	44·25	*S*	47·68	50·60	53·25	54·80	54·89	53·50	50·88
14	*S*	46·40	44·56	44·45	45·96	47·86	50·65	53·33	54·86	*S*	53·40	50·84
15	48·50	46·45	44·63	*S*	45·95	47·85	*S*	53·35	54·82	54·85	53·29	50·77
16	48·47	46·24	44·60	44·30	46·10	48·03	50·85	53·45	*S*	54·84	53·20	*S*
17	48·50	46·15	44·48	44·30	46·31	*S*	51·00	53·55	54·80	54·84	53·18	50·51
18	48·35	*S*	*S*	44·35	46·16	48·08	51·12	53·60	54·90	54·78	*S*	50·42
19	48·30	46·05	44·42	44·50	46·24	48·18	51·50	*S*	54·90	. . .	53·00	50·26
20	48·80	46·10	44·40	44·42	*S*	48·33	51·52	53·65	54·95	54·78	52·94	50·15
21	*S*	45·90	. . .	44·65	46·50	48·45	51·46	53·72	54·95	*S*	52·85	50·00
22	48·18	45·78	44·32	*S*	46·47	48·55	*S*	53·76	54·98	54·70	52·78	49·90
23	48·35	45·80	44·50	44·60	46·55	48·60	51·70	53·82	*S*	54·76	52·71	*S*
24	48·20	45·80	44·30	44·70	46·43	*S*	51·74	53·85	54·90	54·95	52·62	49·74
25	48·05	*S*	*S*	44·70	46·50	48·80	51·85	53·91	54·95	54·60	*S*	Christ. Day
26	48·20	45·54	44·50	44·78	46·55	48·95	51·94	*S*	54·94	54·49	52·48	49·70
27	48·00	45·42	44·30	44·85	*S*	49·15	52·03	54·00	54·99	54·43	52·40	49·25
28	*S*	45·50	44·30	44·90	46·60	49·25	52·15	54·13	54·95	*S*	52·31	49·10
29	47·85		44·30	*S*	46·65	49·20	*S*	54·14	54·95	54·38	52·22	48·35
30	47·75		44·32	45·12	46·85	49·35	52·35	54·24	*S*	54·34	52·13	*S*
31	47·57		44·30		46·75		52·41	54·26		54·34		

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be of the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0°·01; in seven cases the excess amounted to 0°·02; in four cases to 0·03°; and in one case to 0°·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·12	43·48	40·80	*S*	46·96	50·04	*S*	58·00	58·80	58·50	53·65	49·21
2	46·03	43·45	40·70	42·38	47·10	50·12	54·60	58·30	*S*	57·90	53·70	*S*
3	45·95	43·28	40·80	42·40	47·25	*S*	54·35	58·00	59·00	57·90	53·40	48·95
4	45·80	*S*	*S*	42·60	47·25	50·28	55·10	58·20	59·00	57·70	*S*	48·86
5	46·02	43·15	41·10	42·64	47·14	50·20	55·25	*S*	59·00	57·60	52·91	48·70
6	46·10	42·93	41·27	Good Friday.	*S*	50·38	55·60	58·50	59·00	57·60	52·90	48·50
7	*S*	42·80	41·32	42·78	47·40	50·38	55·80	59·00	59·00	*S*	52·72	48·38
8	46·10	42·67	41·42	*S*	47·42	50·58	*S*	59·00	59·00	57·50	52·51	48·19
9	46·20	42·58	41·57	42·97	47·54	50·82	56·20	59·00	*S*	57·32	52·39	*S*
10	46·20	42·50	41·64	42·97	47·60	*S*	56·45	59·00	58·00	57·19	52·29	47·80
11	46·28	*S*	*S*	43·25	47·70	51·30	56·50	59·00	58·00	57·15	*S*	47·60

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 5 French feet—

Day of the Month. 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
12	46·30	42·35	41·70	43·05	47·78	51·50	56·80	*S*	58·00	57·04	52·05	47·38
13	46·30	42·38	41·73	43·67	*S*	51·79	57·20	59·00	58·00	56·88	51·40	47·10
14	*S*	42·20	41·67	43·95	47·90	52·00	57·13	59·00	58·00	*S*	51·90	46·90
15	46·12	42·25	41·70	*S*	47·58	52·27	*S*	59·00	58·00	56·58	51·80	46·76
16	46·05	42·03	41·70	44·28	47·98	52·43	57·30	59·00	*S*	56·42	51·72	*S*
17	45·85	41·83	41·73	44·46	48·10	*S*	57·40	59·00	57·90	56·30	51·65	46·50
18	45·72	*S*	*S*	44·68	47·97	52·62	57·48	59·00	57·80	56·07	*S*	46·20
19	45·58	41·70	41·80	45·00	48·00	52·68	57·40	*S*	57·50	...	51·31	46·00
20	45·40	41·68	41·95	45·20	*S*	52·7	57·40	58·90	57·90	55·82	51·00	45·90
21	*S*	41·53	...	45·59	48·10	52·77	57·40	58·90	57·90	*S*	50·84	45·80
22	45·00	41·38	42·20	*S*	48·22	52·80	*S*	59·00	57·80	55·56	50·69	45·50
23	44·90	41·50	42·45	45·98	48·42	52·80	57·90	58·90	*S*	55·48	50·55	*S*
24	44·70	41·35	42·46	46·12	48·50	*S*	58·10	58·90	57·60	55·39	50·38	45·46
25	44·48	*S*	*S*	46·28	48·55	53·04	57·48	*S*	58·50	55·35	*S*	Christ. Day.
26	44·50	41·00	42·60	46·40	48·82	53·25	57·40	59·00	58·50	55·15	50·04	44·70
27	44·15	40·86	42·50	46·55	*S*	53·50	58·00	59·00	58·55	55·01	49·85	44·80
28	*S*	41·10	42·48	46·70	49·10	53·63	58·00	59·00	58·50	*S*	49·70	44·60
29	44·00		42·40	*S*	49·38	53·82	*S*	59·00	58·50	54·96	49·50	44·20
30	43·81		42·38	46·90	49·73	54·02	58·00	59·00	*S*	54·75	49·34	*S*
31	43·60		42·36		49·90		58·10	58·80		55·01		

The letter *S* denotes that the day was Sunday.

At temperatures above 57°·5, the fluid of this thermometer enters the upper bulb. The estimated readings from July 27 to October 6 are therefore liable to some uncertainty.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	42·00	38·12	36·27	*S*	47·65	51·80	*S*	61·73	62·50	58·90	51·58	45·12
2	42·25	38·20	37·10	39·90	47·63	51·50	60·20	61·60	*S*	58·75	50·90	*S*
3	42·70	37·97	37·80	40·10	47·82	*S*	60·45	61·70	61·80	58·40	49·50	44·61
4	43·10	*S*	*S*	40·53	47·90	51·60	60·70	61·80	61·72	58·19	*S*	44·30
5	43·48	38·00	38·70	40·53	47·95	51·88	61·10	*S*	61·35	58·04	48·81	44·08
6	43·63	37·78	38·78	Good Friday.	*S*	52·50	61·25	62·00	61·13	57·80	48·80	44·05
7	*S*	37·80	38·80	41·60	48·00	53·20	61·30	62·00	60·80	*S*	48·85	43·70
8	44·00	37·75	38·84	*S*	48·22	54·24	*S*	62·50	60·50	57·48	49·15	43·11
9	44·20	37·65	38·80	42·62	48·40	54·60	61·70	62·00	*S*	57·27	49·20	*S*
10	44·18	37·60	38·70	42·97	48·48	*S*	62·00	61·90	60·05	56·89	49·15	42·20
11	43·98	*S*	*S*	43·00	48·78	55·20	62·05	61·70	59·90	56·51	*S*	41·80
12	43·50	37·40	38·28	43·20	48·90	55·54	62·00	*S*	59·75	56·05	49·35	41·55
13	43·18	37·50	38·35	43·60	*S*	56·00	62·00	61·52	59·75	56·00	49·50	41·20
14	*S*	37·10	38·35	44·35	48·40	56·32	62·00	61·40	59·62	*S*	49·42	40·90
15	42·58	37·10	38·28	*S*	48·04	56·40	*S*	61·20	59·62	55·41	49·40	40·60
16	42·10	36·70	39·04	44·28	47·80	55·62	62·46	61·42	*S*	54·95	48·44	*S*
17	41·83	36·60	39·30	45·90	47·90	*S*	62·42	61·62	59·20	54·55	47·71	41·05
18	41·10	*S*	*S*	46·60	47·80	55·30	62·05	61·80	59·20	54·39	*S*	41·10
19	40·62	36·30	40·20	47·10	48·15	54·90	61·65	*S*	59·33	...	47·20	41·05
20	40·35	36·15	40·30	47·10	*S*	54·75	61·45	62·30	59·78	54·45	47·19	40·80
21	*S*	35·97	...	47·60	49·55	54·80	61·00	62·50	59·78	*S*	47·10	42·10
22	39·60	35·90	40·78	*S*	49·81	55·00	*S*	62·40	59·79	54·42	46·99	39·60
23	39·50	36·00	40·80	47·40	49·91	55·48	61·00	62·30	*S*	54·70	46·50	*S*
24	39·45	35·90	40·30	47·50	49·98	*S*	61·20	62·50	59·74	54·90	46·15	38·80

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3 French feet—*continued.*

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
25	39·10	*S*	*S*	46·28	50·40	56·50	61·38	62·55	59·90	54·70	*S*	Christ. Day.
26	39·10	35·60	39·80	46·40	51·20	56·82	61·30	*S*	59·55	54·12	45·75	37·50
27	39·00	35·55	39·50	47·50	*S*	57·25	61·12	62·40	59·05	53·80	45·34	38·80
28	*S*	36·00	39·44	47·72	52·78	57·90	60·90	62·40	58·80	*S*	45·21	39·80
29	38·70		39·50	*S*	53·10	58·50	*S*	62·44	58·66	52·70	45·30	40·45
30	38·56		39·65	47·70	52·90	59·05	61·10	62·50	*S*	52·25	45·28	*S*
31	38·25		39·70		52·30		61·39	62·50		51·50		

The letter *S* denotes that the day was Sunday.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the mean of all the readings at noon, from the beginning of April to the end of September, was found to be 0°·08 higher than the mean of all the observations during the same months: in the remaining months the excess was 0°·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the box which covers the tops of the deep-sunk Thermometers, at Noon on every Day, except Sundays.

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	45·0	38·0	40·8	*S*	48·0	51·0	*S*	65·0	64·5	60·0	44·0	40·6
2	47·0	29·0	44·8	37·0	52·0	53·0	68·0	66·5	*S*	57·5	42·0	*S*
3	47·0	35·0	43·8	43·8	51·0	*S*	69·0	66·0	62·0	57·0	45·0	38·0
4	45·0	*S*	*S*	46·0	48·0	58·0	69·0	66·0	65·0	61·0	*S*	41·5
5	45·7	37·0	42·0	44·5	48·0	58·0	66·0	*S*	61·0	58·0	42·0	43·0
6	48·7	36·3	41·0	Good Friday.	*S*	66·0	67·0	65·0	58·0	58·0	49·1	39·0
7	*S*	35·5	38·0	50·0	53·0	61·0	65·5	67·0	60·0	*S*	51·0	38·0
8	46·0	33·0	38·0	*S*	49·4	62·0	*S*	68·0	60·0	58·0	49·5	37·5
9	46·0	33·0	38·0	48·0	51·0	60·0	67·0	62·5	*S*	57·0	47·5	*S*
10	42·0	33·0	36·0	47·0	54·0	*S*	69·5	63·5	61·0	52·0	50·0	36·0
11	38·0	*S*	*S*	48·0	53·0	63·5	60·0	65·0	61·0	55·0	*S*	34·0
12	42·0	34·0	40·8	50·0	48·2	63·0	64·0	*S*	60·0	57·0	49·0	35·0
13	41·0	29·0	40·5	51·0	*S*	63·0	70·0	64·0	61·5	54·0	47·5	32·0
14	*S*	32·0	41·0	50·0	48·0	57·0	70·0	63·6	57·8	*S*	45·8	37·0
15	36·5	32·0	40·8	*S*	48·0	58·5	*S*	64·5	57·0	51·0	41·5	43·0
16	39·0	33·0	46·0	53·0	48·2	56·5	64·8	66·0	*S*	51·0	39·0	*S*
17	34·0	31·5	44·0	56·0	51·0	*S*	63·0	67·4	59·0	55·0	43·8	37·0
18	30·0	*S*	*S*	51·0	53·0	55·0	64·5	68·0	62·0	54·0	*S*	40·0
19	30·0	29·0	44·0	50·6	56·0	56·0	61·0	*S*	62·0	...	44·0	32·0
20	34·0	20·0	45·0	52·0	*S*	57·0	62·0	66·0	63·0	55·0	43·5	32·0
21	*S*	31·0	...	50·0	55·0	58·0	63·5	66·0	64·0	*S*	42·0	29·0
22	33·0	33·0	39·8	*S*	51·5	63·0	*S*	65·5	63·0	56·5	42·5	30·0
23	32·0	38·6	40·0	50·5	56·0	64·8	68·5	67·3	*S*	57·5	41·5	*S*
24	33·0	35·0	37·0	50·0	57·0	*S*	65·0	68·0	61·2	53·0	42·0	40·0
25	36·0	*S*	*S*	49·0	63·0	63·5	64·0	66·0	60·0	51·5	*S*	Christ. Day
26	33·0	37·0	43·0	48·8	66·2	65·0	62·5	*S*	57·0	52·0	40·0	45·0
27	34·0	36·0	39·0	49·8	*S*	70·0	63·5	64·5	57·0	48·0	42·0	47·0
28	*S*	40·0	42·0	49·0	59·5	70·0	64·0	69·5	63·5	*S*	44·5	46·0
29	34·0		40·0	*S*	53·0	70·0	*S*	67·0	62·0	49·5	43·1	46·0
30	34·8		40·8	48·8	54·0	70·0	68·0	66·5	*S*	52·0	41·0	*S*
31	31·0		41·0		52·0		66·0	66·5		51·0		...

The letter *S* denotes that the day was Sunday.

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with their scales, at Noon on every Day generally, except Sundays.

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°		°
1	49·0	32·0	47·0	*S*	48·3	50·8	*S*	70·0	68·0	64·3	42·0	38·9
2	48·5	30·0	50·7	39·0	62·0	56·5	75·0	73·3	*S*	60·3	39·0	*S*
3	48·3	33·8	45·0	49·0	52·3	*S*	75·0	71·3	63·5	59·0	42·0	37·0
4	45·3	*S*	*S*	48·5	49·0	62·0	73·2	68·0	63·3	65·0	*S*	43·0
5	47·6	40·0	47·5	53·2	55·3	63·5	73·0	*S*	63·5	60·9	42·0	43·5
6	49·6	35·0	46·8	Good Friday.	*S*	80·8	73·0	68·0	59·7	62·0	55·0	38·5
7	*S*	33·5	40·0	56·0	58·5	63·5	67·0	70·0	66·0	*S*	53·3	37·0
8	47·0	31·0	42·0	*S*	50·5	68·5	*S*	69·5	70·0	63·5	50·0	35·0
9	48·3	29·0	39·8	51·4	59·8	61·3	69·0	62·0	*S*	64·3	52·0	*S*
10	39·0	30·0	34·0	50·0	59·8	*S*	74·0	67·3	67·0	51·0	53·0	34·0
11	36·0	*S*	*S*	51·3	58·0	71·0	63·0	71·0	68·0	56·0	*S*	31·0
12	38·8	36·0	44·8	57·3	48·5	69·0	67·3	*S*	65·2	58·5	49·3	33·5
13	41·3	30·0	42·5	51·3	*S*	65·8	78·2	68·5	64·0	58·0	46·0	28·3
14	*S*	30·0	43·3	56·0	49·3	55·0	73·3	70·0	57·4	*S*	45·0	38·0
15	33·0	33·5	44·8	*S*	48·5	59·3	*S*	67·0	61·0	56·0	39·7	46·0
16	38·5	33·5	48·5	66·3	49·3	56·0	64·3	73·3	*S*	54·0	38·7	*S*
17	30·0	28·0	46·8	65·0	57·3	*S*	63·8	75·0	58·5	61·0	44·0	36·0
18	33·0	*S*	*S*	56·0	58·5	58·5	69·0	75·0	66·4	53·3	*S*	41·0
19	29·5	30·5	50·5	60·0	64·3	59·3	58·0	*S*	66·0	...	41·0	28·0
20	31·0	33·3	53·0	61·0	*S*	63·0	64·0	67·5	72·0	61·3	41·3	29·0
21	*S*	33·0	...	54·3	54·0	67·0	70·0	70·0	72·0	*S*	39·6	23·0
22	30·5	36·0	37·0	*S*	51·8	71·3	*S*	71·5	71·3	58·5	40·3	25·0
23	34·0	36·0	39·0	58·0	59·3	68·0	76·0	71·3	*S*	58·5	41·0	*S*
24	35·0	38·5	36·3	63·0	66·5	*S*	67·0	73·0	62·0	53·5	41·0	45·0
25	38·0	*S*	*S*	46·5	70·0	70·0	66·5	70·2	66·5	52·3	*S*	Christ. Day.
26	34·4	39·8	43·3	54·0	80·3	71·0	65·0	*S*	62·0	52·0	42·0	47·0
27	34·8	37·5	40·3	56·0	*S*	83·0	66·5	68·3	65·0	48·3	44·3	50·0
28	*S*	45·3	43·5	55·5	57·0	77·3	67·0	76·0	66·0	*S*	44·3	51·0
29	35·0		41·3	*S*	51·3	77·3	*S*	71·5	64·7	51·0	43·0	49·0
30	31·8		43·0	49·8	51·3	75·0	70·0	74·0	*S*	52·3	40·8	*S*
31	29·5		44·0		48·3		67·3	73·3		49·0		

The letter *S* denotes that the day was Sunday.

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1854.	Dec.	31.	12.	The direction of the wind was W.
1855.	Jan.	31.	12.	,, ,, N.E., which implies a direct motion of 135°.
	Jan.	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	19.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	26.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrogade motion in the month of January was 225°.

		d	h	
1855.	Jan.	31.	12.	The direction of the wind was N.E.
	Feb.	28.	12.	,, ,, S.W., which implies a retrograde motion of 180°.
	Feb.	4.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Feb.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	23.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of February was 540°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

		d	h	
1855.	Feb.	28.	12.	The direction of the wind was S.W.
	March	31.	12.	,, ,, N.E., which implies a direct motion of 540°.
	March	5.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	March	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	19.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	March	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	28.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	March	31.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.

Therefore the whole excess of direct motion in the month of March was 180°.

		d	h	
1855.	March	31.	12.	The direction of the wind was N.E.
	April	30.	12.	,, ,, N.N.E., which implies a retrograde motion of $382\frac{1}{2}°$.
	April	2.	4.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	4.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	18.	6.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	27.	3.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of April was $742\frac{1}{2}°$.

		d	h	
1855.	April	30.	12.	The direction of the wind was N.N.E.
	May	31.	12.	,, ,, S.E., which implies a direct motion of $112\frac{1}{2}°$.
	May	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	13.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	May	17.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	May	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	25.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	26.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of May was $1192\frac{1}{2}°$.

		d	h	
1855.	May	31.	12.	The direction of the wind was S.E.
	June	30.	12.	,, ,, S.W., which implies a retrograde motion of 270°.
	June	0.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	6.	6.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	13.	3.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	28.	3.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of June was 1170°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

		d	h	
1855.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, S.W., which implies no change.
	July	6.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	9.	3.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	18.	4.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	22.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 360°.
	July	23.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of July was 720°.

		d	h	
1855.	July	31.	12.	The direction of the wind was S.W.
	August	31.	12.	,, ,, E.N.E., which implies a retrograde motion of $157\frac{1}{2}$°.
	August	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	6.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	23.	4.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	31.	4.	The trace was shifted to the second set of lines downwards which implies apparent direct motion of 720°.
	August	31.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of August was $922\frac{1}{2}$°.

		d	h	
1855.	August	31.	12.	The direction of the wind was E.N.E.
	Sept.	30.	12.	,, ,, S.W., which implies a direct motion of $517\frac{1}{2}$°.
	Sept.	3.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	5.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	7.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	8.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	26.	4.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Sept.	30.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of September was $1957\frac{1}{2}$°.

		d	h	
1855.	Sept.	30.	12.	The direction of the wind was S.W.
	Oct.	31.	12.	,, ,, N., which implies a retrograde motion of 225°.
	Oct.	8.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of October was 225°.

1855.	Oct.	31.	12.	The direction of the wind was N.
	Nov.	30.	12.	,, ,, W., which implies a retrograde motion of 90°.
	Nov.	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	12.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360.
	Nov.	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of November was 810°.

CHANGES IN THE DIRECTION OF THE WIND—*concluded.*

		d	h	
1855.	Nov.	30.	12.	The direction of the wind was W.
	Dec.	31.	12.	,, ,, S., which implies a retrograde motion of 90°.
	Dec.	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Dec.	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Dec.	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of December was 270°.

The whole excess of direct motion to the end of the year was 3870°. $= 10\frac{3}{4}$

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1855.

1855, MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January	0·2	1·0	0·8	1·5
February	0·2	1·4	1·3	1·0
March	0·5	1·3	1·4	2·0
April	0·1	0·1	0·2	0·1
May	0·5	1·5	1·7	1·8
June	0·5	0·7	0·8	0·9
July	3·1	4·8	4·9	5·3
August	0·6	0·8	1·1	1·4
September	0·8	1·1	1·2	2·0
October	2·6	4·5	4·5	5·2
November	0·5	1·1	1·2	1·5
December	0·4	0·9	1·1	1·1
Sums	10·0	19·2	20·2	23·8

The heights of the receiving surfaces are as follows:—

	Above the Level of the Sea.			Above the Ground.	
	Ft.	In.		Ft.	In.
Osler's Anemometer Gauge	205	6	.....	50	8
Gauge on the Roof of the Library.....	177	2	.....	22	4
Crosley's Gauge	156	6	.....	1	8
Cylinder Gauge	155	3	.....		5

ROYAL OBSERVATORY, GREENWICH.

ADDENDUM

TO THE

MAGNETICAL & METEOROLOGICAL OBSERVATIONS.

Mr. Glaisher has drawn up the following account of the Chemical Processes employed in the Photographic Operations for the self-registration of the Magnetical and Meteorological Indications.

Chemical Preparation and Treatment of the Photographic Paper for Primaries.

The paper used is made by Whatman; it is strong and of even texture, and is prepared expressly for Photographic purposes.

First Operation.—Preliminary Preparation of the Paper.

The chemical solutions used in this process are the following:—

(1.) Sixteen grains of Iodide of Potassium are dissolved in one ounce of distilled water.

(2.) Twenty-four grains of Bromide of Potassium are dissolved in one ounce of distilled water.

(3.) When the crystals are dissolved, the two solutions are mixed together, forming the iodising solution. The mixture will keep through any length of time. Immediately before use, it is filtered through filtering paper.

A quantity of the paper, sufficient for the consumption of several weeks, is treated in the following manner, sheet after sheet.

The sheet of paper is placed upon a board, somewhat smaller on all sides than the paper (a condition necessary for preventing the iodising solution from running under the edges of the paper, which would produce unsightly stains). The paper is usually pinned at one of the sharp angles of the board, and is held by the hand at the opposite angle. A sufficient quantity (about 50 minims or $\frac{5}{4}\frac{5}{9}$ of an ounce troy for a sheet of paper 15 inches long and $9\frac{1}{2}$ broad) of the iodised solution is applied, by pouring it upon the paper in front of a glass rod, which is then moved to and fro till the whole surfac is uniformly wetted by the solution.

The paper thus prepared is allowed to remain in a horizontal position for a few minutes, and is then hung up to dry in the air; when dry, it is placed in a drawer, and may be kept through any length of time.

Second Operation.—Rendering the Paper sensitive to the Action of Light.

A solution of Nitrate of Silver is prepared by dissolving 50 grains of crystallized Nitrate of Silver in one ounce of distilled water. In hot weather a few drops of Acetic Acid are added.

Then the following operation is performed in a room illuminated only by yellow light.

The paper is pinned as before upon a board somewhat smaller than itself, and (by means of a glass rod, as before,) its surface is wetted with 50 minims of the solution. It is allowed to remain a short time in a horizontal position, and, if any part of the paper still shines from the presence of a part of the solution unabsorbed into its texture, the superfluous fluid is taken off by the application of blotting paper.

The paper, still damp, is immediately placed upon the interior glass cylinder, and is covered by the exterior glass cylinder, and is mounted upon the revolving apparatus to receive the spot of light formed by the mirror, which is carried by the magnet.

Third Operation.—Development of the Photographic Trace.

When the paper is removed from the cylinder, it is placed as before upon a board, and a saturated solution of Gallic Acid, to which a few drops of Aceto-Nitrate of Silver are added, (in hot weather this solution is used at the temperature of the air, in cold weather it is heated to the temperature of 70° or 80°, or even higher if the weather is very cold,) is spread over the paper by means of a glass rod, and this action is continued until the trace is fully developed. When the trace is well developed, the paper is placed in a vessel with water, and repeatedly washed with several waters; a brush being passed lightly over both sides of the paper to remove any crystalline deposit, which might cause stains.

Fourth Operation.—Fixing the Photographic Trace.

The Photograph is placed in a solution of Hyposulphite of Soda, made by dissolving four or five ounces of the Hyposulphite in a pint of water; it is plunged completely in the liquid, and allowed to remain from one to four hours, until the yellow tint of the Iodide of Silver is removed. After this the sheet is washed repeatedly with water, and afterwards placed within folds of linen cloths till nearly dry. Finally it is placed between sheets of blotting paper, and a heated iron is passed over it.

CHEMICAL PREPARATIONS AND TREATMENT OF THE PHOTOGRAPHIC PAPER FOR SECONDARIES.

The paper used is made by Rive; it is a strong wove paper of tolerably even texture, thin, but able to bear a great deal of wear.

First Operation.—Preliminary Preparation of the Paper.

The chemical solution required for this purpose is as follows:—

Two grains of Chloride of Ammonia are dissolved in one ounce of distilled water.

A sufficient quantity of this solution is placed in a flat-bottomed porcelain dish, and sheets of paper, one by one, are plunged within it; care being taken that no air bubbles remain between the paper and the solution; this may be prevented by slight pressure over the sheet by means of a bent glass rod. When a few sheets are thus immersed, they are turned over, and are taken out and hung to dry. Any number of sheets may thus be prepared.

An equally good result is obtained, by spreading over one side by means of a glass rod, as in the preparation of the Primaries, a solution of Chloride of Ammonia made by dissolving five grains in one ounce of distilled water.

Second Operation.—Rendering the Paper sensitive to the Action of Light.

The solution required for this purpose is as follows:—

To a filtered solution of Crystallized Nitrate of Silver, (made by dissolving 50 grains of Nitrate of Silver in one ounce of distilled water,) some strong solution of Ammonia is added; the whole becomes at first of a dark brown colour, but when a sufficient quantity of Ammonia is added the solution becomes perfectly clear; a few crystals of Nitrate of Silver are then added till the solution is a little dull, forming "Ammoniacal Nitrate of Silver;" it is then ready for use.

The following operation is performed in a room illuminated only by yellow light:—

By means of a glass rod this solution is spread over the paper, whilst pinned on a board; the paper is dried before a fire, and is then in a fit state to be used for producing a Secondary.

Third Operation.—Formation of the Photographic Copy.

A sheet of the paper so prepared is placed on a sheet of plate glass, with its prepared side upwards; the Primary is then placed on the paper with its own face downwards; and as it is necessary, for obtaining a correct copy of the Primary, that it should be in close contact with the prepared surface, a second sheet of plate glass is placed over it, and the two are pressed together by clamps and screws. The whole is then exposed to the light (the Primary to be copied being above the paper on which the copy is to be made). The time required to produce a copy depends, in a great measure, upon the thickness of the paper on which the Primary is made, and on the actinic quality of the light; a period of five minutes in a bright sunshine, or one hour in clear daylight, is generally sufficient.

Fourth Operation.—Fixing the Photographic Secondary.

When an impression has been thus obtained, it is necessary that the undecomposed Salts of Silver remaining in the paper be removed.

For this purpose the Secondary is at once plunged into a solution of Hyposulphite of Soda (made by dissolving two or three ounces of the Hyposulphite in a pint of water), and is left through a period varying from half an hour to several hours. It is then removed, and washed in plain water several times; and running water is allowed to pass over it for twenty-four hours.

The sheets are then placed within the folds of drying cloths, till nearly dry, and finally are ironed between sheets of blotting paper.

The process of obtaining a Tertiary from a Secondary is in every respect the same as that of obtaining a Secondary from a Primary.

FI

RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1856.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1856.)

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1856.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1856.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1856, of Mr. James Glaisher, the Superintendant, and Mr. Thomas Downs; with three supernumerary assistants, to aid in the observations and reductions.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii; and to corresponding parts of the preceding volumes.

During the year 1856, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two or three observations only have been taken; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite by which the Declination Magnet is observed, corresponding to the Astronomical Meridian, on January 25, February 29, March 1, April 6, 16, 21, 30, May 16, 20, June 13, 27, July 15, 26, 28, 30, August 13, 14, September 4, 25, 28, October 5, 13, 18, November 14, 29, December 31.

Observations were made of the Collimation of the Declination Magnetometer; of the Torsion-force of its Suspension skein; and of the Collimation of the Theodolite-Telescope, on 1855, December 27, 28, 29, 1856, January 2, May 20 and 21.

Observations of the Angle of Torsion of the Horizontal Force Magnetometer were made on 1856, January 5 and 6. The angle determined was 43°. 4′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on the same days, and the general conclusion was, that the scale-readings were nearly identical and had nearly the same value when the reading of the torsion-circle was 144°. 0′ (marked end West); and 230°. 30′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) was 144°. 0′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020524.

The correction for temperature is $0{\cdot}0000809 \times (t-32) + 0{\cdot}000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observation.

Observations of the times of vibration of the Vertical Force Magnetometer in a vertical plane have usually been made three or four times a week. The adopted time of vibration till March 31, was $16^s{\cdot}70$; from April 1 to August 20, $17^s{\cdot}45$; and from August 21 to the end of the year, $16^s{\cdot}43$. Observations for the time of vibration in a horizontal plane were made in 1853, on January 3 and 4, and the time was found to be $25^s{\cdot}0033$ from 10000 vibrations.

The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·001392 till March 31; 0·001275 from April 1 to August 20; and 0·001438 from August 21 to the end of the year: and these numbers have been used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 + (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus; in the determination of zeros, both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in preceding volumes has still occasionally been felt. Apparently, without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot notes, will very nearly produce the original curves.

At the times when the Vertical Force Trace is dislocated, two ordinates have been taken for the same abscissæ; these are connected by a brace, and the difference of the numbers indicates the amount of the disturbance.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Jan. 1 h m		Jan. 1 h m		Jan. 1 h m	°	°
			(†)	0. 0	·02497	1. 40	47 ·0	48 ·0
		3. 10	·0998	0. 58	·02460	3. 40	49 ·0	50 ·0
		4. 4	·0996	3. 0	·02138	9. 40	50 ·0	51 ·0
		4. 26	·0998	5. 28	·01743	21. 40	50 ·0	51 ·0
		5. 0	·0992	5. 30	·01767			
		5. 10	·0988	8. 30	·01716			
		5. 21	·0992	14. 55	·01721			
		5. 27	·0989	21. 26	·01714			
		5. 42	·0998	22. 5	·01747			
		6. 23	·1001	23. 13	·01762			
		6. 44	·1000					
		6. 53	·0995					
		7. 57	·1001					
		8. 34	·1000					
		9. 21	·0997					
		10. 0	·1002					
		10. 23	·1004					
		10. 50	·1001					
		11. 15	·1002					
		12. 24	·1001					
			(†)					
		13. 14	·1003					
		15. 52	·1002					
		17. 47	·1007					
		19. 0	·1008					
		19. 9	·1006					
		19. 15	·1008					
		19. 21	·1007					
		19. 30	·1010					
		20. 33	·1007					
		20. 41	·1008					
		21. 30	·1003					
		22. 5	·1002					
			(†)					
		Jan. 2		Jan. 2		Jan. 2		
		0. 7	·0996	1. 0	·01804	1. 40	51 ·0	52 ·0
		0. 25	·0998	1. 53	·01778	3. 40	53 ·5	54 ·5
		1. 0	·0997	2. 9	·01720	9. 40	51 ·0	53 ·0
		1. 5	·0994	3. 55	{·01823	21. 40	50 ·5	51 ·5
		1. 18	·0992		{·01870			
		1. 48	·0997	6. 30	·01845			
		4. 15	·0995	9. 43	·01901			
		5. 33:	·0998	17. 15	·01817			
		7. 31	·0993	18. 50	·02141			
		7. 50	·0990	21. 0	·02308			
		8. 27	·0993	23. 59	·02342			
		8. 32	·0994					
		9. 0	·0990					
		9. 16	·0996					
		12. 5	·1005					
		12. 28:	·1002					
		15. 37	·1007					
		17. 7	·1011					
		20. 30	·1014					
		21. 30	·1010					
		22. 5	·1005					
		23. 11	·1002					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Jan. 2 h m		h m		h m	°	°
		23. 47	·0996					
		23. 59	·1001					
		Jan. 3		Jan. 3		Jan. 3		
Jan. 3		0. 0	·1000	0. 0	·02342	1. 40	52 ·0	53 ·0
0. 0	21. 45. 40	0. 48	·1006	2. 26	·02163	3. 40	53 ·5	54 ·5
0. 26	45. 55	1. 30	·1003	4. 35	·01901	9. 40	54 ·5	55 ·5
0. 30	45. 20	4. 17	·1000	5. 22	·01862	21. 40	51 ·5	52 ·0
1. 38	46. 10	5. 3	·0998	5. 25	·02003			
1. 40	45. 30	9. 22	·0998	7. 3	·01978			
2. 55	44. 45	9. 46	·0992	15. 37	·02104			
3. 15	45. 10	10. 0	·1000	23. 59	·02360			
3. 26	44. 50	10. 28	·1003					
4. 0	44. 50	10. 50	·1002					
4. 15	45. 10	12. 0	·1004					
4. 40	43. 35	13. 42	·1005					
6. 35	44. 0	16. 28	·1007					
7. 0	44. 40	19. 13	·1011					
7. 43	43. 15	20. 28	·1007					
8. 19	44. 30	21. 0	·1005					
	***							
9. 35	44. 50	22. 30	·1008					
9. 47	39. 20	22. 46	·1006					
10. 29	41. 40							
10. 30	43. 15							
10. 48	42. 10							
11. 6	41. 55							
11. 43	43. 30							
11. 49	44. 15							
12. 13	43. 10							
12. 25	44. 40							
12. 50	44. 5							
12. 57	44. 35							
13. 4	44. 10							
13. 20	44. 5							
13. 57	42. 20							
14. 2	41. 40							
14. 15	42. 0							
15. 2	44. 0							
	***							
15. 52	44. 0							
16. 5	44. 30							
16. 25	44. 20							
16. 45	44. 50							
	***							
20. 9	44. 5							
	***							
20. 20	43. 15							
	***							
20. 36	44. 40							
	***							
20. 54	45. 0							
	***							
22. 23	43. 30							
	***							
22. 32	44. 30							
23. 14	45. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

The Declination Magnet was under adjustment till January 3.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 4				Jan. 4		Jan. 4		
h m	° ′ ″	h m		h m		h m		
0. 52	21. 47. 30			0. 0	·02360	1. 40	55 ·0	
0. 59	46. 50			1. 7	·02321	3. 40	55 ·0	
	***			3. 20	·02198	9. 40	55 ·5	
1. 46	47. 40			4. 41	·02104	21. 40	55 ·0	
2. 15	45. 0			5. 1	·02101			
5. 5	44. 0			5. 5	·02245			
	***			6. 40	·02206			
9. 15	44. 20			18. 45	·02497			
	***			23. 59	·02620			
9. 32	41. 50							
	***							
9. 45	43. 10							
	***							
10. 17	41. 30							
	***							
10. 38	43. 20							
	***							
11. 37	44. 20							
	***							
16. 52	45. 30							
21. 43	44. 55							
22. 15	44. 15							
22. 30	45. 0							
22. 54	45. 0							
23. 31	45. 25							
23. 43	47. 5							
23. 59	46. 0							
Jan. 5		Jan. 5		Jan. 5		Jan. 5		
0. 0	21. 46. 0	2. 46	·1005	0. 0	·02620	1. 40	54 ·0	
0. 55	47. 20	2. 55	·1007	2. 55	·02441	3. 40	54 ·0 55 ·0	
1. 43	46. 30	3. 30	·1004	6. 27	·02117	9. 40	55 ·0 55 ·5	
2. 3	48. 0	5. 3	·1000	8. 24	·02088	23. 3	51 ·5 52 ·5	
	***	7. 28	·1005	8. 28	·02179			
2. 54	43. 10	8. 30	·1007	16. 10	·02116			
	***	9. 15	·1006	23. 47	·02314			
3. 52	46. 30	10. 40	·1002					
	***	11. 30	·1006					
4. 31	45. 0	12. 5	·1007					
4. 37	46. 0		(†)					
	***	14. 33	·1006					
6. 15	42. 15		***					
	(†)	16. 0	·1005					
6. 30	45. 39*	19. 15	·1007					
21. 40	44. 57*	21. 14	·1009					
		23. 59	·1007					
Jan. 6		Jan. 6		Jan. 6		Jan. 6		
0. 25	21. 46. 10	0. 9	·1010	0. 5	·02314	6. 30	51 ·5 52 ·0	
	***	2. 11	·1012	5. 4	·02376	21. 40	49 ·0 50 ·0	
1. 34	47. 35	3. 8	·1014	14. 40	·02414			
	***	6. 32	·1012	18. 44	·02560			
2. 36	46. 25	9. 58	·1009	23. 14	·02668			
	***	11. 56	·1006	23. 43	·02644			
2. 55	45. 0	12. 47	·1009					
	***	13. 50	·1011					
12. 16	44. 20	15. 5	·1014					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 6		Jan. 6						
h m	° ′ ″	h m						
13. 16	21. 45. 0	15. 50	·1016					
	***	20. 4	·1018					
22. 53	44. 30	21. 16	·1012					
22. 58	44. 50	22. 31	·1006					
23. 5	44. 15	22. 47	·1004					
23. 41	46. 0	22. 53	·1006					
		23. 38	·1005					
Jan. 7		Jan. 7		Jan. 7		Jan. 7		
1. 40	21. 46. 48*	0. 6	·1002	0. 13	·02161	1. 40	52 ·0	52 ·5
3. 40	44. 12*	0. 47	·1008	2. 0	·02080	3. 40	54 ·0	55 ·0
9. 40	45. 11	2. 46	·1003	2. 27	·02018	9. 40	55 ·0	56 ·0
21. 40	46. 49*	3. 13	·1001	3. 46	·02112	21. 45	49 ·0	51 ·0
		3. 59	·1000		·02144			
		4. 36	·1002		·02148			
		5. 0	·0998	7. 7	·02208			
		5. 29	·0996	8. 11	·02093			
		6. 0	·0998	9. 40	·02168			
		7. 14	·1000	15. 15	·02217			
		7. 30	·1003	17. 17	·02481			
		8. 6	·1000		·02503			
		9. 14	·0997	21. 50	·02486			
		9. 27	·0995	22. 10	·02450			
		10. 0	·0994	23. 59	·02510			
		10. 7	·0996					
		10. 52	·0999					
		11. 15	·0996					
		12. 5	·0998					
		12. 32	·1002					
		13. 53	·1001					
		14. 8	·1001					
		14. 29	·1005					
		14. 36	·1001					
		15. 47	·1005					
		17. 0	·1009					
		17. 29	·1012					
		21. 0	·1015					
		21. 28	·1013					
		21. 50	·1010					
		22. 14	·1008					
		22. 30	·1004					
		23. 19	·1002					
		23. 59	·1003					
Jan. 8		Jan. 8		Jan. 8		Jan. 8		
0. 0	21. 46. 20	0. 0	·1004	0. 0	·02500	1. 40	51 ·5	52 ·5
	***	1. 20	·1008	2. 42	·02416	3. 40	52 ·5	53 ·0
1. 19	47. 35	2. 5	·1002	5. 30	·02171	9. 0	53 ·0	54 ·0
	***	2. 29	·0999	7. 43	·02080	21. 40	48 ·0	51 ·0
2. 12	45. 20	2. 57	·1001		·02252			
	***	3. 35	·1004	10. 48	·02216			
3. 32	43. 5	4. 33	·1000	16. 10	·02[illegible]			
3. 42	43. 40	4. 44	·1002	16. 41	·02[illegible]			
4. 0	43. 50	5. 18	·0998		·02[illegible]			
4. 7	45. 5	7. 3	·1001	23. 59	·02[illegible]			
4. 29	45. 50	10. 14	·1004					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.
January 4. The Horizontal Force Magnet was under adjustment.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 8		Jan. 8						
h m	° ′ ″	h m		h m		h m	°	°
4. 32	21. 44. 5	11. 34	·1002					
4. 52	43. 20	13. 20	·1005					
7. 17	44. 30	15. 30	·1007					
7. 26	44. 55	16. 43	·1010					
	***	17. 30	·1013					
10. 45	45. 0	17. 58	·1015					
	***	18. 49	·1018					
11. 0:	45. 20	19. 45	·1016					
	***	20. 0:	·1018					
11. 25	44. 30	20. 47	·1015					
	***	21. 15	·1013					
13. 19	47. 15	21. 40	·1009					
	***	22. 12	·1006					
20. 55	46. 20	23. 15	·1004					
	***	23. 34	·1004					
22. 12	44. 30							
	***							
23. 59	47. 25							
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 0	21. 47. 30	0. 45	·1004	0. 0	·02451	1. 40	49 ·0	50 ·0
0. 50	48. 0	0. 55	·1008	2. 17	·02492	3. 40	49 ·0	51 ·0
0. 59	49. 30	1. 25	·1014	3. 50	·02448	9. 40	49 ·0	50 ·0
1. 5	49. 0	1. 58:	·1011	11. 22	·02416	21. 40	45 ·0	46 ·0
1. 22	49. 50	2. 35	·1015	15. 40	·02430			
1. 32	49. 30	3. 30	·1011	23. 59	·02300			
1. 38	47. 40	3. 54	·1008					
4. 2	44. 20	4. 17	·1011					
5. 45	46. 10	4. 36	·1005					
5. 50	45. 30	6. 15	·1007					
7. 12	45. 0	7. 15	·1004					
7. 24	43. 0	7. 28	·1002					
7. 32	42. 45	7. 50	·1006					
7. 36	42. 10		(†)					
7. 45	42. 30	23. 18	·1013					
7. 48	42. 15	23. 59	·1010					
8. 21	44. 20							
8. 27	44. 0							
9. 2	45. 15							
	***							
13. 9	45. 30							
	***							
13. 32	46. 30							
	***							
13. 49	45. 0							
	***							
14. 15	46. 30							
	***							
21. 43	45. 30							
	***							
22. 17	44. 10							
	***							
22. 58	44. 30							
23. 59	45. 0							
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
0. 0	21. 45. 10	0. 0	·1010	0. 0	·02300	1. 40	47 ·1	47 ·0
	***	1. 4	·1012	0. 58	·02303	3. 40	49 ·0	50 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
h m	° ′ ″	h m		h m		h m	°	°
3. 4	21. 47. 20	2. 25	·1009	2. 30	·02246	9. 10	49 ·0	50 ·0
	***	4. 21	·1006	3. 43	·02122	21. 40	41 ·0	42 ·0
3. 18	47. 15	6. 15	·1001	5. 30	·01906			
	***	8. 0	·1007	7. 0	{·01807			
5. 50	44. 30	9. 29	·1007		{·01958			
7. 52	44. 40	14. 16:	·1024	8. 20	·01961			
8. 10	45. 15	15. 2	·1026	14. 10	·02290			
9. 0	46. 15	17. 0	·1030	16. 0	·02300			
9. 30	46. 10	17. 35	·1033	20. 0	·02292			
9. 45	45. 5	18. 33	·1035	21. 50	·02290			
9. 55	46. 5	20. 6	·1034	23. 59	·02317			
10. 1	46. 0	20. 45	·1032					
10. 12	46. 5	21. 27	·1029					
10. 17	46. 30	22. 14	·1020					
10. 29	46. 15	23. 59	·1017					
	***							
13. 19	46. 30							
	***							
15. 17	43. 50							
	***							
15. 45	44. 0							
	***							
15. 58	44. 50							
16. 45	45. 0							
	***							
17. 17	47. 40							
	***							
17. 28	47. 0							
	***							
18. 35	46. 30							
21. 27	46. 40							
21. 32	47. 0							
21. 42	47. 0							
21. 47	45. 30							
22. 43	45. 10							
23. 31	45. 15							
23. 59	46. 0							
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 0	21. 46. 0	0. 0	·1017	0. 0	·02317	1. 40	43 ·0	43 ·8
0. 43	46. 40	0. 46	·1020	1. 12	·02313	3. 40	45 ·0	46 ·0
1. 7	46. 30	1. 30	·1024	2. 20	·02247	9. 40	46 ·0	47 ·0
2. 30	44. 30	2. 12	·1026	5. 24	·01949	21. 50	41 ·5	43 ·0
2. 46	44. 15	3. 0	·1023	7. 0	·01831			
3. 3	43. 35	3. 33	·1021	10. 13	·01680			
3. 56	44. 30	4. 15	·1017	16. 0	·01758			
4. 8	43. 0	4. 47	·1015	18. 14	·01977			
	***	8. 2	·1018	23. 59	·02143			
4. 20	43. 10	9. 46	·1020					
4. 29	44. 15	10. 31	·1022					
4. 34	44. 10	12. 0	·1023					
5. 14	45. 35	14. 21	·1025					
5. 20	46. 0	15. 17	·1029					
5. 28	45. 40	15. 45	·1034					
5. 37	46. 10	16. 34	·1032					
7. 10:	44. 15	17. 0	·1036					
8. 21	45. 10	18. 32	·1035					
9. 8	45. 0	20. 46:	·1037					
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 11		Jan. 11						
h m	° ′ ″	h m		h m		h m	°	°
13. 7	21. 46. 30	21. 15	·1034					
	***	21. 49	·1028					
14. 3	46. 0	22. 30	·1023					
14. 46	46. 55	23. 0	·1021					
15. 3	46. 30	23. 59	·1024					
15. 21	49. 0							
16. 12	45. 5							
17. 45	47. 25							
	***							
18. 53	47. 40							
	***							
21. 10	46. 55							
	***							
21. 41	44. 30							
	***							
23. 59	46. 0							
	***							
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	21. 45. 30	0. 0	·1024	0. 0	·02143	1. 40	44 ·5	46 ·0
0. 26	47. 30	0. 22	·1027	2. 0	·02040	3. 40	47 ·0	48 ·0
0. 43	47. 20	2. 10	·1024	4. 16	·01717	9. 40	45 ·0	46 ·0
0. 51	47. 20	3. 14	·1018	4. 27	·01748	23. 15	37 ·0	38 ·0
1. 37	45. 30	4. 6	·1016	8. 12	·01680			
	***	4. 22	·1018	10. 32	·01776			
3. 13	43. 50	4. 35	·1010	19. 1	·02282			
3. 40	44. 35	4. 45	·1004	23. 28	·02270			
	***	5. 0	·1007					
3. 57	48. 0	5. 12	·1003					
	***		***					
4. 13	47. 50	5. 45	·0999					
	***	6. 21	·1010					
4. 28	50. 0	6. 30	·1013					
	***	6. 51	·1017					
4. 47	48. 25	7. 10	·1020					
5. 1	51. 10	7. 45	·1025					
	***	8. 14	·1027					
5. 10	50. 30	8. 53	·1030					
	***	9. 15	·1027					
5. 23	52. 55	10. 22	·1024					
	***	11. 0	·1022					
5. 38	52. 30	11. 33	·1020					
	***	11. 45	·1026					
5. 48	50. 40	12. 7	·1032					
7. 11	46. 0	12. 15	·1037					
	***	12. 24	·1044					
8. 17	45. 15	12. 30	·1039					
	***	12. 38	·1031					
8. 29	46. 10	13. 16	·1028					
	***	13. 47	·1032					
8. 57	45. 5	14. 5	·1035					
	***	15. 30	·1039					
10. 3	46. 20	16. 20	·1043					
	***	16. 58	·1044					
10. 20	43. 30	19. 6	·1041					
	***	20. 31	·1045					
10. 33	45. 0	21. 45	·1040					
	***	22. 15	·1036					
11. 16	46. 20	22. 26	·1038					
	***							
Jan. 12		Jan. 12						
11. 32	21. 45. 0	22. 40	·1035					
	***	23. 30	·1037					
11. 45	45. 20	23. 59	·1038					
	***							
12. 3	43. 30							
	***							
12. 30	48. 0							
	***							
12. 49	45. 50							
	***							
14. 12	47. 20							
14. 19	46. 20							
	***							
15. 5	47. 10							
	***							
19. 11	46. 0							
	***							
22. 9	53. 30							
	***							
22. 51	52. 40							
23. 21	51. 0							
23. 36	50. 0							
	***							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	21. 49. 10	0. 0	·1038	0. 0	·02195	9. 42	41 ·5	42 ·5
0. 40	52. 10	0. 30	·1042	1. 52	·02262	21. 40	36 ·0	37 ·0
1. 5	51. 20	1. 5	·1034	3. 28	·02238			
1. 16	52. 35	1. 28	·1032	6. 10	·02031			
1. 38	55. 0	2. 50	·1035	8. 55	·01874			
1. 57	51. 25	3. 47	·1031	14. 43	·01969			
2. 15	52. 10	4. 6	·1028	18. 22	·02228			
2. 26	49. 20	4. 48	·1026	23. 59	·02185			
2. 35	46. 40	5. 42	·1022					
	***	6. 14	·1017					
3. 18	45. 30	6. 31	·1014					
	***	7. 0	·1019					
3. 43	45. 45	7. 15	·1025					
3. 52	47. 10	7. 46	·1028					
	***	8. 6	·1024					
5. 23	46. 30	8. 30	·1028					
5. 45	43. 45	8. 46	·1025					
	***	9. 15	·1033					
6. 9	45. 30	10. 24	·1030					
6. 18	45. 10	11. 0	·1032					
6. 33	43. 25	11. 54	·1034					
6. 40	43. 40	13. 0	·1038					
7. 56	42. 30	13. 32	·1022					
8. 13	42. 5	13. 45	·1026					
	***	14. 32	·1024					
8. 29	44. 25	15. 5	·1031					
	***	15. 42	·1036					
8. 51	41. 25	16. 30	·1038					
9. 16	45. 30	18. 0	·1043					
9. 30	46. 0	18. 33	·1045					
9. 47	45. 0	21. 0	·1040					
	***	21. 29	·1038					
12. 1	47. 20	22. 30	·1033					
	***	22. 45	·1031					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 13		Jan. 13						
h m	° ′ ″	h m		h m		h m		°
12. 12	21. 48. 30	23. 38	·1025					
	***	23. 54	·1020					
12. 36	47. 20	23. 59	·1022					
	***							
12. 44	47. 50							
	***							
13. 12	46. 20							
	***							
13. 44	47. 50							
	***							
13. 50	47. 20							
	***							
14. 2	48. 30							
	***							
14. 26	48. 30							
	***							
14. 54	46. 30							
	***							
15. 40	48. 0							
	***							
15. 44	47. 15							
	***							
21. 46	49. 5							
22. 17	46. 35							
23. 59	48. 50							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 0	21. 48. 50	0. 0	·1023	0. 0	·02185	1. 40	39 ·5	40 ·0
0. 55	48. 25	1. 50	·1025	1. 45	·02097	3. 40	43 ·5	45 ·0
	***		***	2. 59	·01880	9. 40	45 ·0	47 ·0
1. 37	48. 0	2. 31	·1019	3. 50	·01690	21. 40	38 ·0	40 ·0
1. 44	49. 0	2. 48	·1021	4. 15	·01720			
1. 52	47. 55	3. 30	·1018	4. 52	·01705			
1. 58	48. 5	4. 30	·1025	7. 3	·01712			
	***	4. 51	·1022	8. 20	·01670			
3. 35	45. 0	5. 32	·1015	10. 24	·01721			
3. 51	42. 20	6. 0	·1012	10. 38	·01777			
4. 7	44. 30	6. 22	·1012	19. 0	·02317			
5. 0	43. 40	6. 43	·1006	22. 42	·02300			
5. 24	45. 0	6. 50	·1009	23. 46	·02311			
	***	7. 15	·1005					
5. 46	44. 0	7. 40	·1012					
5. 56	45. 0	7. 46	·1016					
6. 29	44. 30	7. 57	·1013					
6. 45	40. 30	8. 6	·1018					
7. 24	44. 40	8. 15	·1010					
7. 30	40. 0	8. 22	·1006					
7. 46	43. 50		***					
7. 56	39. 45	9. 15	·1015					
8. 8	44. 0	9. 32	·1017					
	***	11. 3	·1021					
8. 23	43. 0	12. 35	·1026					
	***	12. 47	·1037					
9. 1	46. 0	13. 0	·1032					
	***	13. 15	·1026					
11. 15	44. 50	14. 0	·1030					
	***	15. 10	·1035					
12. 5	46. 0	16. 16	·1037					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 14		Jan. 14						
h m	° ′ ″	h m		h m		h m	°	°
12. 39	21. 45. 30	17. 30	·1040					
	***	18. 42	·1043					
13. 4	44. 5	20. 14	·1039					
	***	20. 33	·1037					
13. 40	46. 30	20. 46	·1035					
	***	21. 12	·1038					
14. 20	46. 30	21. 50	·1036					
	***	22. 2	·1033					
14. 35	45. 20	22. 30	·1031					
	***	23. 30	·1027					
15. 47	46. 0							
	***							
16. 17	45. 30							
	***							
16. 51	46. 30							
	***							
19. 32	46. 0							
	***							
19. 51	45. 30							
	***							
20. 47	46. 35							
21. 3	48. 45							
21. 18	47. 50							
21. 28	46. 20							
	***							
23. 5	46. 30							
23. 28	47. 0							
23. 59	46. 20							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 0	21. 46. 30	0. 5	·1027	0. 5	·02340	1. 40	40 ·5	42 ·0
	***	0. 54	·1023	0. 50	·02318	3. 40	43 ·1	45 ·0
0. 28	45. 5	1. 18	·1024	1. 30	·02300	9. 40	46 ·5	47 ·0
	***		(†)	2. 49	·02201	21. 40	44 ·0	46 ·0
0. 57	44. 40	3. 5	·1019	4. 10	·02000			
	***	3. 17	·1015	5. 53	·01703			
1. 30	48. 15	3. 30	·1022	6. 50	·01697			
1. 43	46. 35	3. 40	·1026	7. 48	·01695			
1. 46	47. 5	4. 14	·1023	8. 0	·01708			
1. 54	45. 30	4. 40	·1020	8. 6	·01692			
2. 3	46. 20	5. 8	·1020	8. 16	·01698			
2. 12	45. 40	5. 40:	·1023	8. 26	·01681			
2. 49	44. 0	7. 8	·1019	10. 52	·01684			
	***	7. 30	·1003	11. 10	·01650			
3. 1	46. 50	7. 40	·1002	13. 37	·01647			
3. 25	43. 35	7. 50	·1007	14. 30	·01620			
	***	8. 7	·1026	18. 33	·01674			
3. 53	45. 0	8. 14	·1030	21. 27	·01671			
4. 13	44. 20	8. 38	·1015	22. 54	·01715			
4. 21	45. 5	8. 50	·1011	23. 59	·01713			
5. 13	43. 40	9. 15	·1014					
	***	9. 23	·1017					
6. 30	45. 15	9. 46	·1019					
7. 16	46. 10	10. 52	·1026					
7. 31	42. 0	11. 15	·1018					
7. 54	41. 30	13. 44	·1025					
8. 5	37. 20	15. 30	·1022					
8. 16	41. 0	17. 3	·1028					
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Jan. 15	
h m	° ′ ″
8. 31	21. 41. 5
8. 39	39. 15
8. 45	40. 5
8. 51	39. 55
	***
9. 21	46. 25
	***
10. 26	43. 0
	***
11. 2	46. 0
	***
11. 45	46. 30
	***
12. 10	49. 25
	***
12. 43	49. 0
12. 50	47. 40
	***
13. 10	50. 0
	***
13. 20	48. 25
	***
13. 47	49. 0
	***
14. 10	45. 30
	***
15. 25	43. 30
	***
19. 48	45. 25
	***
20. 25	47. 25
	***
21. 9	46. 30
21. 18	45. 0
21. 34	45. 40
	***
22. 28	45. 0
	***
22. 46	45. 15
22. 54	46. 10
	***
23. 25	44. 0
	***
23. 47	45. 45
Jan. 16	
0. 32	21. 46. 0
	***
3. 13	45. 35
3. 45	46. 25
3. 55	46. 20
4. 17	46. 25
4. 29	45. 0
4. 32	44. 15
	***
5. 24	45. 10
5. 30	43. 30
5. 36	44. 45
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 15	
h m	
18. 50	·1031
20. 36	·1026
	***
21. 23	·1024
	***
23. 0	·1021
	***
23. 33	·1017
Jan. 16	
0. 11	·1010
1. 32	·1010
2. 5	·1014
3. 30	·1014
4. 28	·1018
4. 45	·1015
5. 30	·1011
6. 18	·1006
7. 10	·1012
	***
9. 0	·1007
9. 18	·1019

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Jan. 16	
0. 0	·01713
0. 33	·01673
	·01748
3. 0	·01741
4. 28	·01760
5. 15	·01756
6. 3	·01772
6. 18	·01803
9. 33	·01798
13. 56	·01872
18. 30	·02081
21. 48	·02282
23. 33	·02346

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Jan. 16		
1. 40	48 ·0	49 ·0
3. 40	49 ·5	50 ·5
9. 40	51 ·0	51 ·0
21. 40	47 ·0	48 ·0

Göttingen Mean Solar Time.	Western Declination.
Jan. 16	
h m	° ′ ″
6. 15	21. 44. 30
6. 30	42. 50
8. 24	45. 30
8. 31	45. 15
8. 43	45. 30
9. 11	36. 50
9. 28	41. 0
	***
9. 56	42. 0
	***
10. 15	44. 0
	***
12. 6	46. 20
	***
16. 5	47. 0
	***
19. 3	49. 40
	***
19. 45	46. 10
	***
21. 24	46. 30
	***
22. 10	45. 0
	***
23. 59	46. 55
Jan. 17	
0. 0	21. 47. 0
0. 20	47. 10
0. 54	46. 30
1. 32	47. 40
	***
2. 13	46. 10
	***
3. 12	45. 30
	***
3. 54	46. 30
	***
4. 16	45. 0
	***
11. 45	44. 40
	***
12. 7	45. 15
	***
13. 31	45. 30
	***
13. 45	47. 15
	***
15. 50	44. 50
15. 59	45. 40
	***
17. 29	44. 30
	***
21. 17	44. 0
	***
21. 30	43. 0
	***
23. 31	45. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 16	
h m	
9. 28	·1012
10. 27	·1015
10. 37	·1014
10. 46	·1017
11. 0	·1013
11. 29	·1016
13. 40	·1020
16. 7	·1023
18. 2	·1027
19. 10	·1031
19. 54	·1028
20. 0	·1030
	***
21. 48	·1026
22. 35	·1024
23. 29	·1020
23. 59	·1018
Jan. 17	
0. 0	·1018
1. 5	·1014
5. 30	·1016
7. 0	·1015
9. 30	·1018
9. 55	·1019
10. 10	·1017
10. 22	·1020
10. 40	·1016
11. 21	·1018
12. 49	·1016
14. 45	·1018
15. 17	·1021
16. 1	·1024
19. 15	·1026
19. 45	·1022
21. 0	·1018
22. 13	·1016
22. 59	·1013
23. 59	·1011

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 16	
h m	
23. 59	·02355
Jan. 17	
0. 10	·02319
2. 17	·02221
3. 10	·02140
5. 46	·01805
	·01861
8. 15	·01792
23. 57	·01842

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Jan. 17		
1. 40	49 ·0	51 ·
3. 40	51 ·	52 ·
9. 40	52 ·	53 ·
21. 40	51 ·	53 ·

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 17								
h m	° ′ ″	h m		h m		h m	°	°
23. 39	21. 46. 30							
23. 46	46. 15							
23. 54	47. 30							
23. 59	47. 5							
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 0	21. 47. 10	0. 0	·1011	0. 19	·01841	1. 40	54 ·0 55 ·0	
0. 22	48. 0	0. 30	·1014	4. 30	·01877	3. 40	55 ·5 56 ·5	
0. 44	47. 10	1. 23	·1016	9. 8	·01850	9. 40	55 ·5 56 ·0	
1. 22	48. 0	2. 26	·1006	9. 37	·01822	21. 40	51 ·5 53 ·0	
2. 10	47. 25	2. 59	·1002	14. 33	·01950			
3. 16	48. 0	3. 30	·1002	21. 3	·02198			
	***	4. 17	·1009	23. 30	·02337			
4. 3	47. 30	4. 30	·1006	23. 52	·02340			
	***	5. 20	·1007					
4. 17	46. 30	5. 47	·1000					
	***	6. 22	·1003					
6. 30	45. 45	7. 37	·1005					
	***	7. 44	·1002					
8. 42	45. 5	8. 30	·1007					
	***	8. 53	·1004					
8. 59	40. 50	9. 15	·1032					
	***	9. 30	·1010					
9. 12	41. 30	9. 47	·1016					
	***	10. 1	·0998					
9. 20	44. 45	10. 15	·1004					
9. 40	37. 0	10. 36	·1007					
	***	11. 6	·1002					
10. 30	39. 25	11. 45	·1007					
	***	12. 14	·1011					
10. 47	41. 10	12. 30	·1014					
	***	14. 31	·1012					
11. 9	39. 15	15. 6	·1014					
	***	16. 0	·1022					
11. 37	44. 40	16. 22	·1018					
	***	17. 15	·1019					
12. 54	45. 30	18. 51	·1022					
13. 5	44. 10	19. 10	·1026					
	***	20. 20	·1020					
14. 8	46. 0	21. 0	·1017					
	***		***					
14. 30	43. 5	23. 50	·1016					
	***							
15. 5	46. 20							
	***							
15. 25	51. 0							
	***							
16. 3	48. 20							
	***							
16. 17	48. 5							
	***							
16. 40	46. 0							
	***							
17. 36	46. 30							
	***							
17. 47	45. 40							
	***							
18. 15	45. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 18								
h m	° ′ ″	h m		h m		h m	°	°
18. 31	21. 44. 0							
	***							
19. 0	48. 0							
	***							
19. 32	47. 20							
	***							
19. 39	46. 5							
	***							
20. 15	45. 0							
	***							
21. 12	48. 0							
	***							
22. 20	45. 0							
	***							
23. 8	45. 0							
	***							
23. 48	47. 0							
23. 59	47. 20							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 0	21. 47. 40	0. 0	·1011	0. 0	·02340	1. 40	53 ·0 54 ·0	
0. 8	48. 0	1. 20	·1013	2. 20	·02314	3. 40	54 ·0 55 ·0	
0. 16	47. 15	2. 50	·1014	4. 13	·02201	9. 40	54 ·2 55 ·5	
0. 59	47. 50		***	5. 35	·02047	23. 15	52 ·0 53 ·0	
1. 17	47. 40	3. 47	·1010	7. 57	·01917			
1. 35	46. 40		***	9. 30	·01877			
2. 55	46. 0	5. 7	·1012	10. 37	·01875			
3. 48	46. 40	5. 30	·1006	20. 0	·02231			
4. 43	46. 10	5. 46	·1010	22. 34	·02290			
4. 50	45. 30	6. 15	·1006	23. 54	·02307			
5. 13	46. 0	6. 45	·1011					
6. 37	47. 20	8. 0	·1011					
6. 46	48. 0	8. 20	·1012					
6. 58	47. 0	10. 0	·1014					
	***	10. 29	·1016					
10. 15	45. 0	10. 56	·1011					
	***	12. 30	·1013					
13. 8	43. 30	15. 15	·1015					
	***	16. 0	·1018					
13. 16	44. 40	17. 14	·1020					
	***	20. 6	·1022					
13. 28	44. 0	21. 15	·1016					
	***	21. 43	·1013					
13. 38	45. 45	22. 30	·1009					
	***	23. 14	·1011					
14. 22	46. 30	23. 59	·1009					
	***							
15. 13	48. 0							
	***							
16. 44	46. 10							
	***							
22. 12	46. 15							
22. 17	47. 20							
22. 29	46. 40							
	***							
23. 36	47. 30							
23. 47	49. 0							
23. 59	49. 5							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 49. 15	0. 0	·1009	0. 0	·02311	9. 40	52·5	53·5
0. 59	50. 30	1. 30	·1014	0. 30	·02320	21. 40	51·0	53·0
1. 10	49. 40	2. 15	·1015	3. 20	·02292			
1. 43	50. 30		***	7. 43	·02143			
	***	4. 20	·1014	9. 45	·02117			
1. 59	48. 45	5. 15	·1007	10. 24	·02064			
2. 49	47. 10	5. 46	·1012	14. 45	·02033			
3. 4	47. 50	6. 0	·1010	23. 50	·02090			
4. 34	48. 0	6. 21	·1012					
4. 58	44. 30	7. 0	·1003					
5. 19	43. 35	7. 36	·1008					
5. 35	45. 40		***					
5. 55	44. 50	8. 30	·1005					
6. 44	47. 15	8. 55	·1012					
	***	9. 10	·1008					
7. 52	44. 0	9. 43	·1016					
	***	10. 18	·1013					
9. 8	43. 40	13. 0	·1011					
	***	13. 29	·1014					
9. 59	45. 35	14. 21	·1016					
	***	16. 10	·1019					
10. 15	44. 45	19. 30	·1017					
	***	21. 44	·1018					
11. 32	46. 0	23. 18	·1013					
	***		(†)					
11. 59	47. 20							
12. 23	47. 0							
12. 32	47. 30							
13. 2	46. 50							
13. 46	46. 40							
14. 10	47. 15							
14. 30	46. 10							
14. 40	47. 30							
17. 15	47. 30							
18. 30	47. 0							
19. 51	46. 30							
21. 0	45. 0							
21. 6	43. 50							
21. 21	44. 30							
	***							
21. 39	41. 15							
	***							
21. 59	45. 20							
	***							
22. 15	44. 40							
	***							
23. 0	45. 30							
23. 15	43. 35							
23. 45	46. 55							
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
	(†)	0. 52	·1014	0. 56	·02043	1. 40	54·0	55·0
1. 0	21. 45. 0	2. 44	·1012	2. 51	·01854	3. 40	56·0	57·0
1. 49	47. 50	3. 30	·1012		·01968	9. 40	57·0	58·5
2. 28	45. 40	4. 5	·1014	3. 36	·01923	21. 40	51·0	53·0
3. 8	44. 50	4. 28	·1010		·02008			
3. 36	44. 40	5. 45	·1007	4. 45	·01912			
3. 44	45. 10	6. 15	·1005	12. 30	·01833			
3. 50	45. 5	6. 45	·1002	16. 52	·01996			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 21		Jan. 21		Jan. 21				
h m	° ′ ″	h m		h m		h m	°	°
4. 0	21. 46. 10	7. 21	·1008	23. 56	·02418			
4. 30	45. 0	8. 6	·1006					
4. 44	45. 30	8. 31	·1006					
4. 53	45. 10	8. 50	·1009					
5. 12	46. 10	9. 15	·1012					
5. 40	45. 15	9. 27	·1009					
6. 3	45. 45	10. 3	·1014					
6. 17	45. 0	10. 31	·1012					
8. 16	44. 50	11. 0	·1014					
	***	11. 36	·1012					
8. 35	42. 10	15. 13	·1014					
	***	16. 28	·1016					
8. 57	45. 30	17. 13	·1020					
	***	18. 12	·1022					
9. 5	45. 50	21. 0	·1019					
	***	21. 6	·1022					
9. 41	42. 10	21. 37	·1015					
	***	22. 27	·1013					
9. 51	44. 40	23. 45	·1012					
	***							
10. 17	45. 50							
	***							
10. 40	45. 20							
	***							
11. 30	45. 10							
	***							
13. 31	46. 5							
	***							
13. 49	45. 50							
14. 21	46. 25							
15. 0	47. 0							
	***							
17. 30	46. 0							
	***							
21. 20	45. 25							
21. 37	44. 55							
22. 15	44. 30							
	***							
23. 59	47. 0							
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	21. 47. 5	0. 7	·1012	0. 25	·02474	1. 40	52·0	53·0
0. 12	48. 0	1. 33	·1015	2. 30	·02533	3. 40	52·5	53·5
2. 15	48. 0	1. 57	·1018	5. 8	·02437	9. 40	52·0	53·0
2. 39	46. 40	2. 21	·1021	8. 21	·02372	21. 40	49·0	50·0
3. 32	45. 5	2. 57	·1024	11. 55	·02453			
3. 53	44. 30		***	14. 7	·02522			
4. 12	46. 20	4. 0	·1020	16. 17	·02541			
4. 43	44. 10	4. 25	·1021	22. 58	·02554			
5. 17	43. 30	5. 0	·1015	23. 25	·02532			
6. 19	47. 0	5. 20	·1019	23. 59	·02497			
6. 28	46. 20		***					
	***	6. 56	·1015					
7. 32	47. 30	8. 19	·1014					
	***	8. 44	·1009					
8. 43	44. 0	9. 16	·1016					
	***	10. 5	·1019					
11. 0	45. 30	10. 33	·1022					
	***	11. 0	·1026					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 22		Jan. 22						
h m	° ′ ″	h m		h m		h m	°	°
11. 57	21. 47. 0	11. 21	·1022					
12. 4	46. 0	13. 32	·1026					
	***	15. 28	·1028					
15. 29	46. 30	15. 48	·1032					
	***	16. 17	·1034					
15. 45	47. 30	17. 21	·1037					
	***	18. 19	·1038					
16. 30	44. 10	18. 54	·1036					
	***	19. 21	·1040					
18. 43	46. 0	19. 37	·1035					
	***	20. 0	·1037					
19. 29	45. 30	20. 15	·1034					
19. 46	46. 40	20. 57	·1030					
	***	21. 24	·1024					
20. 43	44. 0	22. 7	·1021					
	***	22. 45	·1018					
22. 30	44. 0	23. 3	·1016					
	***	23. 32	·1014					
23. 0	43. 35	23. 59	·1019					
	***							
23. 25	45. 0							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 0	21. 47. 0	0. 18	·1021	0. 11	·02462	1. 40	52 ·0	53 ·0
0. 13	46. 5	1. 0	·1016	2. 3	·02264	3. 40	54 ·5	55 ·0
0. 45	47. 0	1. 14	·1022	4. 3	·01882	9. 40	55 ·0	56 ·0
0. 53	46. 20	3. 15	·1014	4. 44	·01906	21. 40	52 ·0	53 ·0
3. 15	46. 30	4. 0	·1012	8. 50	·01814			
5. 12	46. 0	5. 27	·1014	10. 10	·01820			
9. 33	46. 0	7. 0	·1017	15. 12	·01998			
10. 55	43. 30	7. 36	·1019	17. 20	·02120			
	***	7. 56	·1015	19. 12	·02197			
12. 28	42. 25	8. 18	·1012	22. 24	·02184			
	***	9. 15	·1015	23. 59	·02123			
13. 28	45. 0	10. 6	·1011					
21. 45	42. 50	10. 23	·1016					
23. 59	46. 50	10. 39	·1012					
		11. 25	·1010					
		11. 40	·1023					
		11. 42	·1022					
		13. 7	·1019					
		16. 0	·1022					
		17. 0	·1024					
		17. 29	·1028					
		18. 26	·1031					
		19. 30	·1027					
		21. 45	·1020					
			***					
		22. 55	·1018					
			***					
		23. 3	·1018					
			***					
		23. 59	·1012					
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 0	21. 47. 0	0. 17	·1004	0. 5	·02120	1. 40	55 ·0	55 ·0
0. 12	47. 19	0. 55	·1001	1. 0	·02046	3. 40	56 ·0	56 ·0
0. 37	47. 30	1. 46	·1004	2. 12	·01996	9. 40	55 ·0	56 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
h m	° ′ ″	h m		h m		h m	°	°
0. 45	21. 46. 40	2. 36	·1006	3. 47	·01872	21. 40	50 ·0	51 ·0
0. 53	47. 25		***	6. 35	{·01870			
1. 12	46. 50	3. 30	·1000		{·02064			
1. 33	47. 15		***	7. 34	·02043			
1. 55	46. 50	4. 8	·1009	10. 30	·02196			
2. 2	47. 5		***	16. 22	·02660			
2. 11	46. 30	5. 17	·1007	17. 0	·02624			
2. 17	46. 55	7. 46	·1004	19. 8	·02612			
2. 39	47. 15	8. 10	·1008	21. 30	·02620			
3. 16	45. 25	8. 31	·1005	23. 37	·02643			
3. 47	45. 30	8. 45	·1010					
3. 56	46. 40	9. 0	·1019					
4. 17	47. 0	9. 39	·1012					
4. 36	45. 15	10. 35	·1018					
5. 2	45. 0	10. 54	·1024					
5. 17	45. 50	11. 26	·1013					
5. 29	45. 35	12. 0	·1016					
5. 40	46. 0	14. 46	·1018					
5. 52	45. 15	16. 6	·1018					
	***	16. 28	1022					
7. 31	44. 5	17. 40	·1024					
	***	21. 48	·1020					
7. 54	40. 20	22. 15	·1015					
	***	23. 7	·1013					
8. 15	42. 25	23. 59	·1017					
	***							
10. 30	42. 30							
	***							
10. 46	39. 0							
	***							
11. 59	44. 0							
	***							
12. 25	42. 40							
	***							
12. 37	44. 40							
	***							
14. 40	46. 0							
	***							
14. 46	47. 0							
	***							
15. 32	46. 30							
	***							
15. 45	48. 10							
	***							
17. 58	45. 20							
	***							
21. 40	45. 25							
21. 47	44. 30							
22. 2	44. 10							
22. 27	45. 0							
23. 34	45. 50							
23. 59	45. 10							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 0	21. 45. 10	0. 0	·1015	0. 6	·02644	1. 40	52 ·0	53 ·0
2. 12	46. 40	0. 52	·1013	1. 13	·02617	3. 40	54 ·0	55 ·0
2. 52	46. 25	2. 31	·1016	2. 24	·02508	9. 40	54 ·0	55 ·0
3. 18	44. 40	3. 32	·1012	4. 26	·02166	21. 47	49 ·0	50 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Jan. 25		Jan. 25		Jan. 25				
h m	° ′ ″	h m		h m		h m	°	
4. 11	21. 44. 40	4. 50	·1009	6. 20	·01943			
4. 25	45. 40	5. 44	·1008		·02106			
5. 1	44. 40	6. 23	·1010	10. 19	·02243			
5. 30	45. 30	7. 35	·1012	12. 27	·02573			
5. 47	45. 0	8. 44	·1014		·02638			
	(†)	9. 27	·1016	18. 58	·02580			
6. 55	43. 30	10. 48	·1019	23. 39	·02619			
	***	11. 36	·1016					
12. 27	42. 40	11. 50	·1017					
	***	12. 5	·1014					
13. 15	44. 50	13 13	·1018					
	***	13. 35	·1022					
15. 5	45. 0	13. 52	·1025					
	***	14. 43	·1022					
16. 5	42. 30	14. 55	·1025					
	***	15. 5	·1022					
17. 37	44. 35	15. 36	·1024					
	(†)	16. 33	·1020					
18. 55	43. 30	17. 37	·1029					
	***	18. 7	·1022					
21. 35	44. 30	18. 21	·1026					
	***	19. 45	·1033					
21. 44	43. 30	20. 36	·1036					
	***	21. 14	·1031					
22. 32	45. 5	21. 51	·1025					
	***	22. 30	·1020					
22. 55	44. 30	23. 12	·1013					
	***	23. 59	·1007					
23. 59	47. 0							
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 0	21. 47. 0	0. 0	·1007	0. 0	·02600	1. 40	51 ·0	52 ·0
0. 21	48. 50	0. 20	·1004	1. 8	·02561	3. 40	54 ·0	55 ·0
1. 25	49. 40	0. 55	·0999	2. 20	·02415	9. 40	52 ·0	53 ·5
	***	1. 30	·1003	5. 19	·01803	23. 20	48 ·0	49 ·0
2. 18	47. 35	2. 21	·0997	5. 22	·01821			
2. 36	46. 0	2. 52	·1008	6. 30	·01793			
3. 3	46. 50	3. 40	·1012	7. 29	·01782			
3. 43	46. 15	3. 57	·1013	7. 33	·01882			
3. 51	47. 0	4. 38	·1009	8. 43	·01901			
4. 0	46. 30	6. 5	·1008	12. 58	·02137			
4. 29	47. 0	7. 20	·1012	15. 0	·02170			
4. 45	46. 15	10. 52	·1013	18. 32	·02335			
	***	12. 2	·1017	21. 13	·02434			
11. 28	45. 25	13. 53	·1019	23. 46	·02461			
	***	15. 6	·1022					
13. 26	44. 10	15. 35	·1021					
	***	16. 20	·1024					
13. 33	45. 0	17. 45	·1028					
	***	19. 23	·1030					
15. 2	44. 50	21. 11	·1026					
	***	23. 14	·1021					
16. 30	45. 45	23. 59	·1018					
	***							
21. 3	42. 45							
	***							
23. 59	46. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 27		Jan. 27		Jan. 27		Jan. 27		
h m	° ′ ″	h m		h m		h m	°	
0. 0	21. 46. 0	0. 0	·1018	0. 0	·02541	9. 10	48 ·5	49 ·5
	***		***	1. 41	·02563	21. 40	53 ·0	54 ·0
1. 36	49. 30	1. 30	·1020	2. 13	·02518			
	***		***	5. 43	·02496			
3. 4	47. 0	2. 33	·1025	10. 14	·02411			
	***	4. 43	·1020	14. 10	·02582			
3. 59	46. 35	7. 48	·1032	15. 6	·02585			
	***	8. 30	·1034	20. 10	·02456			
4. 13	46. 0	9. 1	·1028	22. 15	·02446			
	***	9. 55	·1033	23. 59	·02477			
10. 2	44. 10	10. 12	·1029					
	***	10. 26	·1032					
10. 17	41. 0	10. 48	·1030					
	***	12. 15	·1032					
11. 15	44. 30	13. 33	·1034					
	***	13. 43	·1030					
13. 3	45. 0	15. 12	·1034					
	***	17. 0	·1036					
15. 30	45. 5	18. 29	·1039					
	***	20. 26	·1020					
16. 7	46. 0	21. 50	·1037					
	***	23. 0	·1020					
20. 51	45. 30	23. 54	·1022					
	***	23. 59	·1022					
21. 32	46. 0							
21. 52	43. 50							
23. 3	46. 10							
23. 46	46. 50							
23. 59	47. 50							
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 0	21. 47. 50	0. 0	·1022	1. 11	·02483	1. 40	45 ·0	46 ·0
1. 12	50. 15	1. 20	·1024	2. 25	·02381	3. 40	48 ·0	49 ·0
1. 25	50. 30		***	2. 58	·02308	9. 40	48 ·0	49 ·8
1. 29	49. 30	3. 15	·1022	3. 44	·02191	21. 45	41 ·0	43 ·0
	***		***	5. 33	·01846			
2. 32	49. 30	4. 2	·1026	6. 48	·01690			
	***	5. 13	·1024	8. 20	·01687			
3. 0	48. 40	5. 22	·1027	9. 50	·01650			
	***	5. 41	·1025	12. 25	·01681			
3. 12	49. 0	5. 54	·1030	13. 30	·01797			
3. 30	47. 5	6. 9	·1025	14. 41	·01862			
4. 6	47. 10	6. 43	·1027	20. 56	·02378			
4. 15	47. 40	6. 47	·1030	22. 0	·02446			
5. 0	46. 50	7. 0	·1026	23. 0	·02413			
	***	7. 33	·1031	23. 59	·02447			
7. 46	46. 0	8. 5	·1022					
	***	8. 27	·1033					
8. 21	36. 20	8. 42	·1035					
	***	8. 54	·1025					
8. 52	43. 30	9. 30	·1018					
	***	10. 30	·1026					
10. 25	46. 10	10. 43	·1043					
	***	10. 52	·1032					
10. 40	41. 30	11. 6	·1029					
	***	11. 26	·1020					
10. 52	43. 10	12. 20	·1030					
	***	12. 48	·1035					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 28		Jan. 28	
h m	° ′ ″	h m	
11. 10	21. 41. 40	13. 3	·1026
	***	13. 16	·1030
11. 17	43. 20	15. 25	·1033
	***	15. 30	·1029
11. 45	41. 5	15. 45	·1032
	***	17. 2	·1036
12. 0	42. 40	18. 50	·1030
	***	21. 17	·1034
12. 30	42. 0	22. 0	·1031
	***	23. 59	·1025
12. 47	46. 0		
	***		
13. 16	40. 5		
	***		
14. 0	44. 50		
	***		
14. 53	45. 20		
	***		
15. 14	46. 40		
	***		
16. 45	46. 30		
	***		
17. 7	47. 15		
22. 10	43. 40		
23. 45	45. 20		
	***		
25. 59	46. 30		
	***		
Jan. 29		Jan. 29	
0. 0	21. 46. 40	0. 0	·1025
0. 30	46. 10	0. 36	·1028
0. 55	46. 40	1. 11	·1028
1. 22	47. 50	2. 50	·1037
2. 7	47. 30	4. 41	·1034
2. 14	47. 0	6. 0	·1030
3. 13	47. 30	7. 32	·1027
3. 29	46. 50	8. 15	·1031
3. 58	46. 30	8. 46	·1030
4. 10	48. 5	9. 3	·1048
4. 30	47. 40	9. 31	·1034
5. 36	46. 0	10. 33	·1034
5. 45	45. 30	10. 52	·1038
6. 32	46. 30	12. 0	·1041
8. 36	46. 25	12. 12	·1040
8. 57	37. 55	12. 15	·1042
	***	12. 37	·1047
9. 30	45. 0	13. 0	·1042
	***	14. 49	·1043
10. 59	45. 40	19. 45	·1050
	***	21. 7	·1055
11. 16	44. 50	22. 12	·1046
	***	23. 56	·1038
11. 43	45. 25		
	***		
12. 10	43. 35		
	***		
12. 16	44. 35		
	***		

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
			Of H. F. Magnet.	Of V. F. Magnet.
h m		h m	°	°
Jan. 29				
0. 27	·02422	1. 40	43 ·0	45 ·0
2. 2	·02414	3. 40	45 ·5	46 ·5
3. 16	·02321	9. 40	46 ·0	47 ·0
4. 48	·02157	21. 50	38 ·0	40 ·0
8. 5	·01862			
10. 11	·01885			
13. 55	·02016			
18. 36	·02332			
	·02358			
22. 26	·02343			
23. 46	·02380			

Göttingen Mean Solar Time.	Western Declination.
Jan. 29	
h m	° ′ ″
13. 2	21. 45. 15
	***
13. 15	47. 0
	***
14. 17	46. 25
	***
21. 18	46. 0
21. 35	44. 0
22. 45	45. 5
23. 58	46. 50
Jan. 30	
0. 47	21. 47. 50
1. 57	48. 50
2. 30	48. 0
3. 0	47. 50
3. 45	46. 10
5. 13	44. 30
5. 45	46. 40
	***
7. 30	46. 30
	***
9. 36	46. 0
	***
11. 20	46. 40
	***
14. 36	46. 35
	***
15. 35	46. 0
	***
16. 45	47. 20
	***
21. 30	47. 0
21. 40	46. 0
22. 48	47. 10
23. 22	46. 5
23. 59	47. 25
Jan. 31	
0. 0	21. 47. 30
0. 13	47. 0
1. 10	47. 0
2. 40	47. 10
4. 0	50. 0
4. 16	49. 40
4. 32	50. 15
4. 46	48. 30
5. 13	44. 10
	***
5. 45	48. 55
5. 51	48. 10
6. 9	48. 40
6. 26	49. 0
7. 45	45. 0
8. 0	46. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 30	
0. 5	·1035
0. 43	·1034
0. 52	·1034
2. 1	·1031
2. 36	·1030
2. 45	·1028
3. 37	·1032
4. 40	·1034
4. 55	·1030
5. 50	·1030
6. 47	·1038
9. 50	·1037
10. 46	·1038
12. 51	·1040
12. 57	·1042
14. 6	·1043
14. 17	·1045
15. 27	·1044
15. 46	·1046
16. 40	·1047
17. 4	·1050
18. 15	·1052
19. 45	·1054
21. 18	·1050
21. 32	·1047
22. 38	·1043
23. 36	·1042
23. 59	·1048
Jan. 31	
0. 0	·1048
1. 19	·1045
2. 34	·1042
3. 20	·1039
3. 36	·1042
4. 35	·1038
5. 6	·1027
5. 20	·1036
5. 36	·1038
6. 0	·1034
6. 27	·1029
6. 52	·1032
	***
7. 43	·1023
7. 53	·1025
8. 7	·1020
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 30	
0. 28	·02387
1. 25	·02381
2. 50	·02361
3. 44	·02182
6. 5	·01790
7. 11	·01678
9. 7	·01561
14. 10	·01613
15. 35	·01650
17. 57	·01821
19. 17	·01836
20. 20	·02001
21. 18	·02080
23. 37	·02221
Jan. 31	
0. 0	·02234
1. 21	·02210
3. 30	·02031
4. 52	·01840
6. 23	·01676
6. 47	·01623
8. 40	·01638
12. 18	·01636
	·01721
14. 30	·01789
17. 26	·02004
20. 25	·02231
23. 42	·02417

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	42 ·0	43 ·0
3. 40	44 ·0	45 ·0
9. 40	44 ·5	45 ·5
21. 40	39 ·0	41 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 31		Jan. 31						
h m	° ′ ″	h m		h m		h m	°	°
8. 43	21. 47. 10	9. 10	·1017					
8. 58	46. 45	9. 42	·1023					
9. 11	48. 15	9. 51	·1030					
10. 7	45. 20	10. 4	·1026					
10. 17	46. 45	10. 13	·1030					
	***	10. 29	·1027					
10. 33	44. 30	10. 50	·1032					
	***	11. 6	·1030					
11. 14	44. 30	11. 15	·1036					
	***	11. 30	·1037					
11. 29	45. 30	11. 37	·1034					
	***	11. 54	·1037					
11. 48	38. 0	12. 22	·1022					
	***	12. 45	·1028					
12. 16	40. 0	12. 52	·1026					
12. 25	38. 40	13. 13	·1034					
	***	14. 6	·1037					
13. 45	44. 30	14. 45	·1042					
	***	15. 21	·1047					
14. 52	41. 30	15. 33	·1045					
	***	15. 48	·1046					
15. 13	43. 0	15. 56	·1048					
	***	16. 25	·1045					
15. 29	37. 40	17. 0	·1049					
	***	17. 21	·1046					
15. 47	39. 20	17. 49	·1052					
15. 56	41. 20	18. 28	·1057					
16. 4	39. 10	19. 10	·1067					
	***	19. 26	·1060					
16. 28	41. 30	19. 38	·1062					
16. 41	44. 30	20. 25	·1056					
16. 53	43. 30	20. 48	·1064					
17. 2	44. 50	20. 54	·1060					
	***	20. 56	·1063					
17. 14.	43. 0	21. 5	·1058					
	***	21. 10	·1061					
18. 15	44. 20	21. 21	·1054					
18. 32	47. 30	22. 12	·1040					
	***	23. 8	·1031					
18. 47	47. 0	23. 59	·1031					
18. 58	45. 0							
19. 28	47. 15							
20. 14	48. 0							
21. 12	49. 55							
21. 58	47. 30							
22. 53	47. 30							
23. 58	51. 0							
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 5	21. 51. 35	0. 0	·1037	0. 4	·02407	1. 40	43 ·0	44 ·0
0. 26	50. 30	0. 13	·1037	2. 17	·02302	3. 40	45 ·5	46 ·0
1. 15	49. 55	0. 17	·1034	3. 44	·02161	9. 40	48 ·0	49 ·0
2. 37	50. 30	1. 17	·1036	5. 11	·01954	21. 50	44 ·0	45 ·0
3. 29	48. 15	1. 37	·1033	6. 15	·01876			
3. 52	48. 15	1. 57	·1034	8. 1	·01690			
4. 2.	50. 50	2. 30	·1032		·01742			
4. 54	48. 10	2. 55	·1036	9. 0	·01722			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 1		Feb. 1		Feb. 1				
h m	° ′ ″	h m		h m		h m	°	°
5. 9	21. 48. 0	3. 11	·1032	15. 20	·01760			
5. 53	44. 5	3. 28	·1028	20. 53	·01917			
6. 13	46. 0		***	23. 5	·01980			
6. 30	45. 10	4. 30	·1034	23. 8	·01922			
7. 0	46. 0	5. 16	·1027	23. 52	·01950			
7. 39	46. 0	5. 23	·1030					
7. 52	45. 25	5. 52	·1028					
8. 45	45. 30	6. 5	·1031					
11. 13	46. 35	6. 15	·1030					
	***	6. 51	·1039					
13. 30	45. 10	7. 26	·1042					
	***	7. 33	·1040					
15. 4	44. 30	9. 30	·1040					
	***	10. 8	·1045					
16. 17	45. 50	10. 15	·1043					
16. 40	45. 0	11. 30	·1040					
17. 0	46. 30	11. 57	·1044					
	***	12. 9	·1040					
19. 47	46. 20	13. 57	·1043					
	***	15. 20	·1044					
21. 3	47. 5	17. 17	·1050					
21. 29	45. 10	18. 5	·1049					
	***	19. 23	·1054					
22. 59	44. 30	20. 0	·1056					
23. 59	46. 30	21. 6	·1052					
		21. 47	·1050					
		22. 22	·1047					
		23. 30	·1044					
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 0	21. 46. 30	0. 28	·1037	0. 0	·01994	1. 40	45 ·0	46 ·0
	***	0. 37	·1045	2. 12	·01903	3. 40	46 ·5	47 ·5
2. 59	45. 25	0. 45	·1039	2. 15	·01985	9. 40	46 ·0	47 ·0
	***	1. 30	·1047	3. 11	·01992	23. 12	41 ·0	43 ·0
4. 32	47. 0	1. 55	·1045	3. 57	·01967			
4. 45	45. 0	2. 5	·1048	4. 30	·02015			
4. 58	45. 0	2. 42	·1046	10. 16	·02111			
5. 8	43. 30	3. 44.	·1045	15. 9	·02317			
5. 25	44. 5	4. 21	·1039		(†)			
5. 32	46. 15	4. 42	·1030	18. 22	·02418			
7. 31	45. 40	5. 5	·1026	22. 10	·02416			
7. 51	45. 10	5. 20	·1033					
8. 10	45. 40	6. 4	·1038					
9. 22	45. 5	6. 47	·1045					
9. 48	41. 20	7. 48.	·1047					
	***	9. 31	·1046					
10. 46	45. 0	11. 14	·1056					
	***	12. 40	·1052					
11. 15	44. 40	13. 13	·1052					
	***	13. 21	·1057					
12. 31	46. 35	13. 49	·1053					
12. 43	48. 30	18. 0	·1058					
12. 51	47. 30	20. 47	·1063					
	***	22. 31	·1059					
13. 59	46. 0	23. 35	·1054					
	***							
15. 35	46. 35							
15. 58	46. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 2								
h m	° ′ ″	h m		h m		h m	°	°
17. 10	21. 47. 15							
17. 41	46. 10							
18. 3	47. 10							
	***							
22. 4	45. 0							
22. 46	43. 40							
23. 59	46. 15							
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
0. 0	21. 46. 15	0. 37	·1051	0. 5	.02413	10. 8	44 ·0	45 ·0
0. 15	47. 15	1. 10	·1047	1. 36	·02450	21. 40	40 ·0	41 ·0
1. 17:	50. 35	4. 50	·1049	2. 59	·02422			
	***	7. 4	·1048	4. 7	·02321			
2. 14	48. 50	8. 12	·1047	7. 8	·01934			
4. 30	47. 20	10. 27	·1051	8. 33	·01818			
	***	12. 48	·1053	9. 45	·01775			
9. 49	45. 0	13. 16	·1056	14. 26	·01908			
	***	15. 2	·1058	19. 50	·02316			
10. 50:	46. 50	18. 40	·1062	21. 14	·02405			
	***	20. 51:	·1063		{ ·02376			
11. 54	46. 10	21. 52	·1056	22. 44	{ ·02416			
	***	23. 36	·1046	23. 13	·02417			
14. 15	47. 55	23. 46	·1049	23. 30	·02414			
	***	23. 59	·1046					
21. 2	46. 0							
21. 32	44. 25							
22. 17	43. 50							
22. 32	44. 5							
22. 54	44. 50							
23. 20	46. 25							
23. 59	47. 0							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
0. 0	21. 47. 0	0. 0	·1046	1. 22	·02416	1. 40	44 ·5	46 ·0
	***	1. 52	·1039	1. 50	·02380	3. 40	48 ·0	49 ·0
			***		(†)	9. 40	51 ·0	52 ·0
1. 37	47. 40					21. 40	46 ·4	48 ·0
2. 0	46. 0	3. 30	·1043	2. 45	·02281			
2. 30	46. 0	4. 11	·1042	3. 35	·02176			
3. 36:	44. 30	5. 25	·1037	4. 16	·02040			
5. 12	44. 15	6. 3	·1037	5. 0	·01879			
8. 51	46. 5	7. 22	·1041	5. 37	·01760			
9. 7	42. 25	7. 33	·1038	5. 52	·01798			
9. 34	45. 55	8. 26	·1037	6. 22	·01790			
9. 45	43. 5	9. 5	·1035	6. 26	·01871			
11. 17	46. 30	9. 13	·1037	9. 49	·01867			
	***	9. 21	·1034	14. 50	·01923			
13. 35	46. 30	9. 40	·1033	18. 27	·01998			
	***	9. 49	·1035	20. 15	·02042			
14. 17	50. 0	10. 20	·1032	22. 33	·02187			
	***	10. 35	·1036	23. 51	·02228			
14. 38	47. 0	10. 40	·1034					
	***	10. 53	·1040					
15. 31	46. 5	11. 29	·1037					
	***	11. 41	·1040					
16. 19	48. 0	12. 10	·1038					
	***	12. 16	1039					
16. 55	46. 15	12. 38	·1037					
	***	12. 46	·1039					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 4		Feb. 4						
h m	° ′ ″	h m		h m		h m	°	°
17. 20	21. 47. 45	13. 44	·1043					
	***	14. 46	·1046					
20. 45	46. 30	14. 49	·1044					
21. 10	45. 0	15. 10	·1045					
22. 15	44. 55	15. 16	·1047					
23. 15	46. 30	15. 25	·1043					
23. 59	46. 5	16. 47	·1045					
		17. 1	·1044					
		17. 30	·1046					
		17. 54	·1049					
		18. 2	·1047					
		19. 47	·1051					
		21. 7	·1048					
		21. 49	·1046					
		23. 18	·1040					
		23. 23	·1042					
		23. 50	·1040					
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 12	21. 47. 30	0. 7	·1041	0. 28	·02167	1. 40	49 ·5	50 ·5
0. 29	47. 5	0. 22	·1039	1. 26	·02140	3. 40	52 ·9	54 ·0
2. 52	46. 0	2. 48	·1038	2. 20	·02061	9. 40	53 ·5	54 ·0
4. 30:	43. 30	3. 49	·1037	2. 41	·02028	21. 40	49 ·0	50 ·0
4. 50	44. 55	4. 36	·1033	3. 10	·01947			
4. 53	44. 20	4. 48	·1032	4. 0	·01795			
5. 52	45. 20	5. 22	·1033	6. 5	·01789			
	***	6. 36	·1031	6. 14	·01843			
8. 35	44. 15	7. 5	·1029	8. 15	·01883			
	***		***	15. 11	·02282			
9. 47	45. 10	9. 31	·1030	17. 41	·02546			
9. 56	42. 10	11. 30	·1033	22. 10	·02622			
10. 20	45. 20	11. 47	·1039	23. 22	·02636			
	***	12. 26	·1032	23. 53	·02615			
11. 30	46. 45	12. 55	·1044					
	***	13. 21	·1037					
11. 59	43. 5	13. 34	·1035					
	***	14. 51	·1042					
12. 22	46. 10	15. 40	·1044					
	***	15. 43	·1042					
13. 28	44. 5	16. 10	·1043					
	***	18. 43	·1046					
15. 0	46. 0	20. 40:	·1047					
	***	22. 27	·1036					
21. 2	45. 30	23. 59	·1037					
21. 51	44. 0							
22. 2	42. 30							
22. 13	44. 30							
23. 59	46. 45							
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 6	21. 47. 10	0. 2	·1036	0. 0	·02623	1. 40	51 ·5	52 ·0
0. 35	47. 30	0. 33	·1037	2. 52	·02519	3. 40	53 ·0	53 ·0
0. 44	49. 55	0. 40	·1041	3. 44	·02420	9. 40	54 ·0	55 ·0
	***	0. 55	·1036	5. 20	·02270	21. 40	54 ·5	55 ·0
1. 43	49. 0	1. 36	·1036	6. 6	·02198			
3. 10	46. 15	1. 40	·1037	7. 35	·02057			
3. 17	45. 35	2. 15	·1035	8. 50	·02002			
4. 16	45. 0	2. 51	·1037	14. 37	·01919			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 6		Feb. 6		Feb. 6				
h m	° ′ ″	h m		h m		h m	°	°
4. 29	21. 46. 25	3. 21	·1034	15. 50	·01914			
4. 32	45. 5	4. 10	·1033	17. 34	·01881			
4. 42	44. 55	4. 22	·1037	23. 18	·01900			
4. 45	43. 0	4. 27	·1034					
5. 4	42. 10	4. 55	·1032					
5. 8	44. 15	5. 28	·1027					
6. 45	44. 35	6. 30	·1026					
	***	7. 40	·1028					
8. 32	46. 40	8. 34	·1024					
	***	7. 12	·1019					
8. 50	44. 0	9. 36	·1018					
	***	9. 44	·1021					
9. 21	45. 30	10. 0	·1016					
	***	10. 6	·1019					
10. 16	44. 0	10. 24	·1013					
	***	10. 45	·1015					
10. 40	42. 5	11. 2	·1017					
	***	11. 45	·1019					
11. 43	44. 0	12. 20	·1026					
	***	12. 26	·1024					
12. 25	45. 0	12. 47	·1027					
	***	13. 6	·1026					
13. 0	43. 5	13. 14	·1029					
	***	14. 3	·1024					
13. 33	45. 10	14. 22	·1032					
	***	15. 4	·1027					
13. 47	44. 45	15. 25	·1024					
	***	16. 0	·1033					
14. 5	45. 20	16. 8	·1036					
	***	16. 25	·1032					
14. 26	42. 40	16. 57	·1037					
	***	17. 15	·1025					
14. 40	44. 35	17. 31	·1045					
	***	17. 45	·1040					
15. 10	44. 55	17. 56	·1043					
	***	18. 29	·1026					
15. 27	48. 0	18. 44	·1030					
	***	18. 50	·1036					
16. 12	47. 5	19. 15	·1041					
	***	19. 37	·1037					
16. 37	48. 10	19. 52	·1038					
	***	20. 18	·1035					
17. 4	51. 50	20. 40	·1040					
	***	21. 29	·1041					
17. 40	45. 0	21. 49	·1029					
	***	22. 15	·1024					
18. 13	54. 0	22. 46	·1027					
	***	23. 3	·1026					
18. 36	51. 30	23. 13	·1033					
	***	23. 31	·1027					
18. 42	53. 10	23. 59	·1031					
	***							
19. 11	46. 30							
	***							
20. 39	45. 15							
	***							
21. 4	47. 0							
21. 14	46. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 6								
h m	° ′ ″	h m		h m		h m	°	°
21. 24	21. 47. 0							
21. 33	46. 10							
21. 59	41. 15							
22. 13	41. 30							
22. 32	43. 30							
22. 36	46. 30							
23. 5	47. 10							
23. 11	49. 0							
23. 37	48. 30							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	21. 47. 30	0. 0	·1033	0. 0	·01902	1. 40	55 ·0	56 ·0
0. 7	46. 30	0. 49	·1025	1. 12	·01897	3. 40	57 ·0	57 ·0
	***	1. 42	·1021	2. 1	·01862	7. 35	59 ·0	60 ·0
1. 12	47. 0	2. 10	·1018	3. 7	·01890	21. 40	55 ·0	56 ·0
1. 17	48. 25	2. 27	·1006	3. 21	·01917			
1. 22	47. 40	2. 38	·1000	4. 40	·01900			
	***	2. 51	·1002	5. 57	·01915			
2. 25	48. 30	3. 15	·1000	8. 55	·01834			
	***	3. 30	·1008	15. 3	·01841			
2. 51	50. 30	3. 46	·1007	20. 44	·02145			
3. 8	47. 20	4. 43	·1014	22. 15	·02221			
3. 20	47. 55	5. 0	·1013	23. 27	·02240			
	***	5. 25	·1018					
3. 32	49. 30	7. 20	·1021					
	***	9. 13	·1022					
4. 57	43. 0	9. 51	·1023					
	***	11. 12	·1021					
9. 0	44. 0	12. 30	·1022					
	***	13. 25	·1025					
10. 46	44. 45	14. 22	·1021					
	***	14. 56	·1026					
13. 8	44. 5	15. 5	·1024					
	***	15. 56	·1026					
13. 37	45. 20	16. 43	·1023					
	***	16. 55	·1025					
14. 9	44. 0	17. 40	·1025					
	***	18. 16	·1022					
14. 25	47. 30	18. 51	·1029					
	***	20. 17	·1032					
15. 3	44. 0	20. 36	·1034					
	***	21. 44	·1030					
15. 18	45. 5	22. 33	·1023					
	***	23. 55	·1023					
15. 45	43. 30							
	***							
16. 37	43. 0							
	***							
17. 0	44. 0							
	***							
17. 26	43. 20							
	***							
19. 17	46. 10							
	***							
19. 47	44. 0							
	***							
20. 46	45. 50							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 7								
h m	° ′ ″	h m		h m		h m	°	°
22. 32	21. 42. 30							
23. 56	44. 0							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
1. 40	21. 48. 16*	0. 25	·1023	0. 29	·02226	1. 40	57 ·0	58 ·0
3. 40	48. 19*	0. 44	·1024	2. 7	·02197	3. 40	58 ·0	59 ·0
9. 40	46. 19*	1. 30	·1018	3. 35	·02136	9. 40	57 ·0	58 ·0
21. 40	45. 51*	2. 22	·1014	6. 29	·01860	21. 40	53 ·0	54 ·0
			***		·01918			
		3. 0	·1015	9. 0	·01846			
		3. 7	·1014	15. 15	·02021			
		3. 22	·1018	18. 35	·02317			
		3. 56	·1015	21. 2	·02450			
		4. 13	·1013	22. 55	·02582			
		4. 36	·1014	23. 43	·02597			
		6. 35	·1016					
		7. 10	·1017					
		8. 10	·1019					
		8. 21	·1020					
		9. 15	·1022					
		10. 9	·1024					
		10. 15	·1022					
		10. 36	·1028					
		10. 45	·1025					
		11. 8	·1027					
		11. 16	·1024					
		11. 26	·1027					
		11. 33	·1021					
		11. 40	·1025					
		12. 0	·1026					
		12. 58	·1028					
		13. 7	·1024					
		13. 18	·1027					
		13. 37	·1024					
		14. 21	·1027					
		14. 36	·1037					
		15. 16	·1024					
		15. 30	·1024					
		15. 43	·1028					
		15. 52	·1025					
		17. 13	·1030					
		17. 48	·1029					
		18. 7	·1032					
		18. 15	·1029					
		18. 36	·1038					
		18. 46	·1037					
		19. 39	·1047					
		20. 48	·1036					
		20. 55	·1038					
			***					
		21. 49	·1028					
		22. 40	·1024					
			***					
		23. 59	·1018					
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
0. 17	21. 48. 55	0. 0	·1018	0. 4	·02610	1. 40	55 ·0	56 ·0
1. 1	48. 5		***	1. 25	·02548	3. 40	57 ·0	58 ·0
1. 12	50. 30	0. 40	·1014	2. 41	·02423	9. 40	57 ·0	57 ·0
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
h m	° ′ ″	h m		h m		h m	°	°
1. 57	21. 51. 30	1. 13	·1018	4. 17	·02212	23. 10	54 ·0	55 ·0
2. 22	46. 50	1. 17	·1016	5. 44	·01937			
2. 59	46. 50	1. 23	·1019	6. 20	·01877			
	***	2. 6	·1003	8. 43	·01861			
3. 12	45. 0	2. 20	·1004	11. 11	·01950			
3. 42	48. 55	3. 3	·1015	13. 10	·01980			
	***	3. 15	·1018	16. 21	·01978			
4. 30	48. 5		***	16. 50	·02046			
	***	4. 0	·1016	20. 30	·02137			
6. 21	46. 5	4. 20	·1018	21. 56	·02124			
7. 0	32. 10	4. 33	·1011	23. 52	·02176			
7. 16	36. 15	4. 50	·1015					
7. 19	36. 10	6. 1	·1020					
7. 38	42. 10	6. 22	·1009					
	***	6. 35	·1000					
8. 40	46. 5	6. 54	·1007					
	***	7. 7	·1016					
9. 34	46. 15	7. 15	·1017					
	(†)	7. 36	·1023					
10. 45	45. 0	7. 39	·1018					
	***	8. 5	·1016					
11. 46	44. 0	9. 38	·1022					
11. 50	48. 35	10. 51	·1026					
12. 10	44. 0	11. 6	·1033					
	***	11. 40	·1023					
14. 9	45. 55	11. 46	·1026					
	***	11. 58	·1022					
14. 17	44. 20	12. 13	·1027					
	***	12. 33	·1024					
14. 31	45. 30	13. 45	·1021					
	***	14. 14	·1019					
14. 56	45. 25	14. 53	·1023					
	***	15. 10	·1021					
15. 15	44. 0		***					
	***	17. 57	·1032					
17. 45	44. 50	18. 12	·1028					
	***	19. 48	·1036					
20. 36	47. 40	20. 10	·1031					
	***	20. 25	·1033					
21. 0	45. 5	21. 10:	·1029					
	***	21. 50	·1016					
21. 49	50. 20	22. 1	·1013					
23. 54	52. 0	22. 36	·1018					
		23. 9	·1023					
		23. 59	·1021					
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 0	21. 51. 10	0. 0	·1020	0. 0	·02157	9. 30	55 ·5	56 ·0
	***	0. 46	·1021	2. 56	·02125	21. 40	54 ·0	55 ·0
1. 5	52. 0	1. 6	·1017	7. 52	·02021			
1. 24	50. 30	2. 0	·1021	9. 24	·01990			
1. 44	50. 20		***	16. 32	·02071			
2. 15	54. 0	3. 5	·1021	18. 40	·02165			
2. 28:	52. 15		***	20. 10	·02212			
2. 46	52. 40	4. 15	·1028	22. 15	·02217			
3. 2	50. 10	4. 33	·1019	23. 59	·02240			
3. 32	50. 0	4. 57	·1023					
3. 49	48. 15	5. 13	·1031					
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 10		Feb. 10						
h m	° ′ ″	h m		h m		h m	°	°
4. 25	21. 48. 35	5. 28	·1031					
4. 58	43. 20	5. 43	·1034					
5. 37	47. 40	6. 18	·1032					
	***	6. 51	·1025					
7. 29	47. 15	7. 30	·1028					
	***	7. 46	·1016					
7. 47	41. 25	8. 4	·1015					
8. 9	37. 0	8. 22	·1031					
	***	8. 44	·1042					
8. 23	40. 0	8. 57	·1036					
8. 30	39. 0	9. 11	·1026					
	***	9. 38	·1028					
8. 52	41. 0	10. 0	·1024					
	***		***					
9. 10	44. 50	11. 31	·1031					
	***	12. 30	·1028					
10. 43	46. 25	12. 47	·1034					
	***	13. 26	·1029					
13. 20	44. 30	14. 12	·1033					
	***	14. 30	·1030					
13. 45	45. 0	14. 39	·1034					
	***	15. 33	·1035					
14. 11	46. 40	16. 30	·1034					
	***	18. 40	·1035					
14. 22	45. 35	19. 12	·1040					
	***	20. 21	·1042					
14. 36	47. 20	20. 55	·1040					
	***	21. 38	·1027					
20. 46	49. 25	22. 25	·1028					
20. 55	49. 40	22. 34	·1023					
21. 23	46. 50		***					
21. 45	47. 30	23. 6	·1021					
22. 23	46. 55	23. 25	·1016					
22. 30	48. 0	23. 59	·1010					
	***							
23. 59	49. 5							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 0	21. 49. 10	0. 0	·1010	0. 11	·02224	1. 40	56 ·0	57 ·0
	***		***					
0. 4	49. 30			0. 51	·02217	3. 40	58 ·0	58 ·0
0. 9	48. 10	0. 52	·1014	2. 15	·02136	9. 40	56 ·0	57 ·0
0. 49	50. 30	1. 7	·1012	3. 0	·02120	21. 50	53 ·0	54 ·0
	***		***					
1. 13	53. 10			3. 48	·01865			
1. 20	52. 5	1. 34	·1010		·01930			
1. 38	53. 30	2. 10	·0986	7. 42	·01867			
1. 46	52. 0	2. 31	·0993	9. 15	·01831			
	***	2. 36	·0987	9. 46	·01836			
2. 43	55. 0	2. 43	·0987	10. 35	·01816			
2. 53	52. 45	2. 50	·0980	14. 5	·01981			
	***	3. 13	·0990	16. 6	·02136			
3. 41	49. 50		***	17. 0	·02178			
	***	3. 54	·0992	21. 0	·02457			
4. 9	50. 5	4. 8	·0995	23. 59	·02564			
4. 17	47. 20	4. 20	·0987					
4. 47	45. 0		***					
	***	5. 0	·0997					
5. 6	45. 50	5. 18	·0994					
5. 15	44. 0	5. 30	·0992					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 11		Feb. 11						
h m	° ′ ″	h m		h m		h m	°	°
5. 19	21. 44. 30	5. 42	·0998					
5. 30	42. 0	5. 58	·0994					
5. 43	42. 15		***					
5. 47	41. 0	6. 23	·1003					
6. 26	47. 10	6. 49	·1001					
6. 30	45. 25	7. 0	·0997					
6. 47	46. 30	7. 13	·1001					
7. 42	44. 35	7. 30	·0999					
8. 11	47. 15	8. 20	·1007					
	***	8. 44	·1003					
8. 30	47. 25	8. 55	·1008					
	***	9. 12	·1005					
9. 10	45. 0	9. 26	·1028					
	***	9. 45	·1039					
9. 18	33. 15	9. 56	·1031					
	***	10. 9	·1026					
9. 30	36. 0	10. 20	·1012					
	***	10. 25	·1007					
9. 43	32. 15	10. 32	·1012					
	***	10. 40	·1005					
10. 18	43. 15	10. 54	·1001					
10. 30	39. 0	11. 6	·1003					
10. 47	45. 0	11. 15	·1002					
	***	11. 21	·1006					
11. 57	47. 5	12. 15	·1003					
	***	12. 36	·1007					
12. 18	45. 0	12. 41	·1005					
	***	12. 51	·1009					
12. 52	48. 40	12. 58	·1007					
	***	13. 8	·1015					
13. 27	47. 35	13. 29	·1017					
	***	13. 45	·1012					
13. 45	49. 40	14. 3	·1016					
	***	14. 36	·1012					
14. 17	46. 55	15. 1	·1009					
	***		***					
14. 51	49. 0	15. 55	·1010					
	***	16. 25	·1007					
15. 4	47. 10	17. 3	·1012					
	***	17. 15	·1017					
15. 21	48. 5		***					
	***	18. 18	·1019					
15. 31	46. 50		***					
	***	19. 34	·1023					
16. 5	51. 0	20. 10	·1018					
	***		***					
17. 40	46. 50	21. 16	·1021					
	***		***					
20. 58	47. 25	22. 6	·1016					
	***	23. 59	·1005					
21. 40	49. 15							
	***							
22. 15	46. 5							
	***							
23. 13	46. 10							
23. 48	47. 0							
23. 59	48. 15							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 45	0. 0	·1005	1. 22	·02543	1. 40	55 ·0	56 ·0
0. 13	49. 40	0. 12	·1002	2. 52	·02461	3. 40	57 ·0	57 ·0
0. 56	47. 30	0. 20	·1005	3. 10	·02470	9. 40	55 ·0	57 ·0
1. 20	48. 35	2. 0	·1006	3. 24	·02437	21. 40	54 ·0	54 ·0
	***	2. 21	·1004	3. 43	·02420			
2. 30	48. 10	2. 45	·1000	5. 3	·02290			
2. 59	46. 25	2. 59	·0980	6. 50	·02157			
3. 12	46. 30		***	7. 56	·02097			
3. 24	43. 5	3. 13	·0993	11. 35	·02047			
	***	3. 26	·0985	16. 0	·02117			
4. 23	48. 45		***	19. 4	·02256			
4. 47	47. 30	3. 55	·1009	22. 1	·02374			
5. 3	37. 55	4. 12	·1008	23. 34	·02417			
5. 12	40. 0		***					
5. 26	38. 15	4. 51	·0997					
5. 37	41. 40	5. 10	·1009					
5. 51	41. 30	5. 22	·1000					
	***	5. 45	·1007					
6. 34	47. 0	6. 10	·1002					
	***	6. 26	·1007					
7. 43	49. 40		***					
	***	8. 28	·1010					
8. 30	46. 50	8. 34	·1007					
	***	9. 45	·1008					
10. 28	44. 50	10. 44	·1012					
	***	11. 15	·1011					
11. 40	45. 25		***					
	***	12. 17	·1017					
12. 15	43. 55	12. 30	·1012					
	***	12. 54	·1015					
13. 15	44. 20	13. 44	·1014					
	***	14. 10	·1019					
13. 28	43. 50	14. 20	·1023					
	***	14. 42	·1015					
13. 52	45. 30	15. 45	·1026					
	***	16. 14	·1017					
14. 39	40. 25	16. 37	·1021					
	***		***					
14. 58	45. 30	19. 40	·1017					
	***		***					
15. 42	45. 50	21. 43	·1019					
15. 57	43. 40		***					
16. 3	45. 0	23. 59	·1013					
	***							
17. 17	45. 30							
	***							
20. 0	46. 0							
	***							
23. 25	47. 0							
23. 30	46. 30							
23. 59	47. 15							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	21. 47. 15	0. 0	·1013	0. 14	·02416	1. 40	56 ·0	57 ·0
0. 11	48. 30	0. 33	·1016	3. 7	·02283	3. 40	56 ·0	57 ·0
0. 20	47. 35		***	5. 9	·02157	9. 40	57 ·0	57 ·0
0. 27	49. 0	5. 13	·1001	5. 24	·02125	21. 40	53 ·0	54 ·0
	***	5. 21	·0993	6. 16	·02097			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 13		Feb. 13		Feb. 13				
h m	° ′ ″	h m		h m		h m	°	°
1. 45	21. 48. 10	5. 58:	·1007	8. 13	·01976			
1. 51	48. 25		***	10. 47	·01921			
2. 3	48. 0	6. 50	·1001	12. 56	·02010			
2. 8	48. 30		***	17. 50	·02221			
	***	7. 21	·1003	21. 51	·02497			
3. 14	47. 10		***	22. 14	·02522			
3. 19	47. 50	8. 8	·1004	23. 20	·02588			
3. 50	48. 0	8. 27	·1019	23. 59	·02611			
4. 17	46. 30	8. 46	·1010					
4. 24	47. 10		(†)					
	***	21. 40	·1025*					
5. 20	47. 30							
5. 33	45. 10							
5. 37	45. 0							
6. 6	48. 30							
6. 25	48. 30							
6. 40	50. 0							
6. 45	48. 0							
7. 0	48. 45							
7. 9	47. 0							
7. 22	47. 20							
7. 33	44. 30							
7. 44	47. 20							
8. 8	34. 20							
	***							
8. 37	42. 40							
	***							
9. 0	46. 0							
9. 24	45. 10							
	***							
10. 45	47. 15							
	***							
12. 0	45. 55							
	***							
14. 8	46. 25							
	***							
19. 23	45. 10							
	***							
21. 39	47. 20							
21. 46	46. 5							
22. 55	46. 10							
23. 23	48. 15							
23. 52	46. 55							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 8	21. 48. 30	0. 27	·1015	0. 52	·02591	1. 40	54 ·5	55 ·5
	***	1. 14	·1017	2. 0	·02521	3. 40	56 ·0	57 ·0
1. 22	48. 5		***	3. 25	·02318	9. 40	56 ·0	56 ·0
1. 33	49. 30	2. 50	·1015	5. 3	·02040	21. 45	51 ·0	52 ·0
2. 11	48. 30	3. 14	·1010	6. 4	·01913			
2. 17	49. 40	3. 25	·1013	6. 51	·01840			
4. 3	47. 35	4. 0	·1009		·01857			
4. 17	48. 30	4. 21	·1010	8. 22	·01801			
4. 45	47. 25		***	10. 0	·01852			
5. 36	46. 0	5. 43	·1001	11. 18	·01908			
5. 50	46. 45	6. 8	·1011	18. 42	·02497			
	***	6. 47	·1011	20. 30	·02617			
10. 0	46. 55	6. 57	·1013	21. 12	·02636			
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 14		Feb. 14		Feb. 14				
h m	° ′ ″	h m		h m		h m	°	°
10. 47	21. 46. 0	9. 30	·1019	22. 25	·02608			
11. 15	47. 30	10. 46	·1021	23. 15	·02621			
11. 35	46. 0	10. 55	·1026					
	***	11. 6	·1023					
14. 30	44. 30	11. 26	·1030					
	***	11. 37	·1025					
14. 48	45. 30	13. 0	·1023					
	***	13. 25	·1025					
15. 5	45. 0	14. 6	·1026					
	***	14. 21	·1024					
15. 41	47. 15	15. 0	·1024					
	***	15. 20	·1022					
16. 53	46. 0	15. 51	·1027					
	***	16. 26	·1033					
17. 15	45. 0	17. 30	·1031					
	***	17. 51	·1027					
17. 38	47. 0	18. 18	·1028					
	***	19. 12	·1036					
22. 47	45. 30	19. 21	·1034					
	***	20. 17	·1036					
23. 59	48. 30	20. 30	·1037					
		21. 45	·1036					
			***					
		23. 43	·1025					
		23. 59	·1023					
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 0	21. 48. 30	0. 0	·1023	0. 0	·02647	1. 40	53 ·0	54 ·0
2. 45	47. 50	1. 2	·1026	1. 16	·02644	3. 40	56 ·0	56 ·5
	***		***	2. 5	·02581	9. 40	57 ·5	58 ·5
3. 10	46. 10	2. 6	·1021	2. 28	·02495	21. 40	51 ·0	52 ·0
	***	2. 17	·1016	2. 55	·02417			
3. 38	47. 30	2. 38	·1015	3. 48	·02224			
	***	3. 1	·1017	4. 22	·02092			
4. 3	46. 15	3. 10	·1022	5. 2	·01921			
	***	3. 55	·1016	5. 5	·01937			
5. 16	46. 0	4. 5	·1019	5. 51	{·01917			
	***		***		{·02058			
5. 57	47. 0	4. 36	·1012	6. 10	·02024			
	***	5. 7	·1014	6. 41	·02057			
8. 0	46. 30		***	11. 14	·02326			
8. 30	44. 0	5. 34	·1017	11. 30	·02357			
8. 40	46. 10	6. 0	·1015	12. 50	·02438			
8. 43	44. 0	6. 39	·1014	15. 11	·02677			
9. 12	39. 0	6. 47	·1017	15. 30	·02651			
9. 35	44. 0	6. 55	·1015	20. 28	·02652			
10. 19	40. 30	7. 6	·1017	23. 12	·02650			
	***		***					
10. 48	44. 30	7. 41	·1013					
	***	8. 6	·1015					
11. 38	44. 55	8. 31	·1006					
	***	9. 6	·1014					
11. 52	47. 0	9. 37	·1016					
	***	9. 52	·1011					
12. 43	43. 30	10. 7	·1016					
	***	10. 18	·1013					
13. 15	48. 0	10. 33	·1017					
	***	10. 38	·1015					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15		Feb. 15						
h m	° ′ ″	h m		h m		h m	°	°
14. 10	21. 47. 10	10. 46	·1019					
	***	10. 57	·1013					
14. 27	45. 30	11. 12	·1012					
	***	11. 23	·1019					
15. 26	48. 30	11. 37	·1015					
	***	12. 30	·1017					
16. 9	47. 25	13. 4	·1018					
	***	13. 15	·1015					
17. 10	48. 20	13. 31	·1021					
	***	14. 12	·1028					
17. 18	47. 30	14. 36	·1023					
	***	14. 43	·1024					
20. 15	46. 0	14. 48	·1023					
	***	15. 0	·1027					
20. 46	47. 50	15. 31	·1025					
	***	16. 34	·1034					
22. 2	42. 10	16. 43	·1041					
	***	17. 0	·1034					
23. 11	46. 40	17. 16	·1032					
23. 59	47. 0	17. 37	·1035					
		17. 52	·1035					
		17. 58	·1031					
		18. 6	·1034					
			***					
		19. 30	·1038					
		19. 47	·1035					
			***					
		20. 16	·1033					
			***					
		20. 52	·1031					
		21. 6	·1036					
			***					
		22. 12	·1025					
			***					
		23. 21	·1025					
			***					
		23. 59	·1023					
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 0	21. 47. 0	0. 0	·1023	2. 5	·02560	1. 40	54 ·0	55 ·0
	***		***	3. 21	·02361	3. 40	59 ·0	60 ·0
1. 13	47. 10	0. 21	·1025	5. 33	·01818	9. 40	58 ·0	59 ·5
1. 16	49. 20		***	5. 44	·01869	23. 40	51 ·0	52 ·0
1. 22	47. 0	0. 34	·1019	7. 30	·01819			
	***		***	8. 29	{·01830			
2. 14	48. 15	1. 55	·1012		{·01998			
	***		***	10. 12	·01990			
2. 27	46. 55	2. 15	·1015	15. 11	·02262			
	***	2. 35	·1008	17. 57	·02661			
3. 5	47. 20		***	20. 37	·02660			
	***	4. 50	·1009	21. 0	·02639			
3. 43	46. 55		***	21. 21	·02635			
4. 0	47. 0	6. 40	·1011	21. 41	·02618			
4. 5	47. 45		***	22. 11	·02615			
	***	8. 46	·1017					
8. 55	44. 10	9. 13	·1017					
	***	9. 34	·1019					
11. 43	45. 30	10. 25	·1018					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16.		Feb. 16						
h m	° ′ ″	h m		h m		h m	°	°
12. 8	21. 48. 0	10. 47	·1021					
	***	11. 19	·1023					
12. 29	43. 45	11. 35	·1031					
	***	11. 54	·1027					
12. 49	45. 20	12. 1	·1029					
	***	12. 11	·1038					
13. 44	44. 0	12. 16	·1041					
	***	13. 13	·1020					
14. 2	48. 0	13. 31	·1025					
	***	13. 36	·1022					
14. 45	50. 30	13. 57	·1022					
	***	14. 6	·1025					
15. 25	46. 30	14. 14	·1022					
	***	14. 49	·1029					
16. 21	46. 10	15. 15	·1030					
	***	15. 52	·1027					
20. 45	45. 30	16. 19	·1028					
	***	16. 44	·1033					
23. 59	49. 30	17. 8	·1032					
		17. 50	·1032					
		18. 51	·1037					
		19. 47	·1035					
		20. 40	·1034					
		22. 0	·1023					
			***					
		23. 59	·1021					
Feb. 17.		Feb. 17.		Feb. 17.		Feb. 17.		
0. 0	21. 49. 30	0. 0	·1021	1. 35	·02622	10. 47	48 ·0	49 ·0
	***		***	4. 25	·02641	21. 40	45 ·5	47 ·0
2. 23	51. 30	1. 15	·1028	9. 0	·02605			
	***	1. 23	·1031	9. 58	·02621			
3. 0	47. 0		***	10. 26	·02620			
	***	2. 12	·1034	11. 13	·02617			
4. 10	48. 15	2. 27	·1025		(†)			
	***	2. 46	·1025	14. 30	·02578			
5. 47	46. 45	3. 7	·1030	18. 37	·02557			
	(†)	3. 21	·1030	21. 26	·02560			
7. 13	46. 0	3. 38	·1044	21. 49	·02544			
	***	4. 8	·1035	22. 55	·02548			
9. 15	45. 30	4. 35	·1033					
	***	4. 45	·1036					
15. 0	46. 0		***					
	(†)	6. 15	·1034					
		6. 41	·1037					
		6. 54	·1034					
		8. 41	·1037					
		10. 19	·1036					
			***					
		11. 46	·1037					
		14. 5	·1039					
		14. 44	·1041					
		15. 48	·1040					
		16. 15	·1043					
		17. 12	·1044					
			***					
		17. 45	·1046					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Feb. 17						
h m	° ′ ″	h m		h m		h m	°	°
		18. 45	·1045					
			***					
		19. 11	·1044					
		19. 16	·1049					
			***					
		20. 21	·1048					
		21. 0	·1045					
		22. 15	·1030					
		22. 46	·1023					
		23. 7	·1025					
		23. 59	·1026					
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
	(†)	0. 0	·1026		(†)	1. 40	47 ·5	48 ·0
1. 8	21. 50. 20	1. 0	·1027	1. 42	·02163	3. 40	47 ·5	48 ·5
	***		***	4. 9	·02060	9. 40	48 ·0	49 ·0
1. 37	51. 15	2. 18	·1034	7. 22	·01839	21. 40	46 ·0	47 ·0
1. 47	50. 10	2. 49	·1034	8. 36	·01777			
3. 2	50. 25	2. 51	·1028	10. 47	·01781			
3. 10	51. 50	2. 55	·1034	14. 34	·01846			
	***	3. 3	·1043	20. 5	·02020			
3. 33	50. 30	3. 6	·1029	21. 43	·02017			
3. 43	48. 0	3. 9	·1036	23. 49	·02075			
3. 46	50. 25	3. 15	·1035					
4. 21	44. 30	3. 28	·1021					
	***	3. 36	·1018					
4. 47	43. 15	3. 44	·1024					
5. 2	43. 30	4. 1	·1024					
5. 35	46. 30	4. 9	·1018					
5. 58	46. 10		***					
6. 10	47. 20	4. 30	·1021					
6. 25	46. 30	4. 52	·1029					
	***	5. 16	·1031					
13. 30	46. 30	5. 39	·1027					
	***	5. 54	·1031					
13. 43	47. 10	6. 21	·1028					
	***	6. 50	·1030					
14. 13	45. 50	7. 6	·1033					
	***	7. 45	·1036					
14. 17	46. 30	8. 25	·1036					
	***	8. 37	·1034					
14. 35	46. 0	8. 48	·1037					
	***	10. 15	·1037					
15. 48	46. 30	10. 22	·1039					
	***	12. 1	·1038					
16. 6	45. 55	13. 12	·1043					
	***	13. 26	·1043					
17. 0	46. 20	13. 36	·1046					
	***	14. 31	·1046					
18. 8	45. 0	14. 44	·1044					
	***	16. 43	·1048					
22. 12	43. 40	18. 15	·1050					
	***	19. 45	·1047					
23. 58	47. 30	20. 10	·1048					
		20. 33	·1046					
		21. 7	·1040					
			***					
		22. 35	·1030					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Feb. 18 h m		h m		h m	°	°
		23. 9	·1028 ***					
		23. 59	·1030					
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 12	21. 47. 15	0. 7	·1031	0. 35	·02086	1. 40	48 ·0	49 ·0
1. 46.	49. 30	0. 18	·1035	2. 10	·02057	3. 40	49 ·0	49 ·0
4. 0	47. 0	0. 33	·1029 ***	3. 54	·01972	9. 40	47 ·0	48 ·0
4. 16	46. 0			6. 18	·01735	21. 40	44 ·0	45 ·0
5. 5.	45. 20	1. 1	·1030 ***	8. 5	·01651			
5. 45	46. 20 ***			9. 20	·01648			
		2. 45	·1032 ***	14. 5	·01790			
8. 20	45. 10 ***			21. 17	·02161			
		3. 40	·1032 ***	23. 48	·02280			
9. 43	46. 25 ***							
		4. 13	·1037					
10. 10	43. 20 ***	4. 17	·1034					
		5. 16	·1034					
10. 43	46. 0 ***	5. 45	·1034					
		6. 6	·1033					
10. 51	42. 30 ***	7. 8	·1037					
		7. 16	·1037					
11. 33	44. 40 ***	7. 22	·1041					
		7. 25	·1037					
12. 4	43. 20 ***	9. 0	·1036					
		9. 47	·1040					
12. 45	46. 10 ***	10. 4	·1045					
		10. 19	·1039					
13. 16	45. 15 ***	10. 34	·1035					
		10. 40	·1039					
16. 10	47. 30 ***	10. 55	·1051					
		11. 13	·1045					
21. 40	46. 40	11. 35	·1038					
21. 46	45. 50 ***	11. 55	·1049					
		12. 7	·1041					
23. 59	47. 30	12. 25	·1043					
		12. 48	·1050					
		13. 43	·1045					
		13. 52	·1042					
		14. 27	·1047					
		14. 34	·1046					
		14. 45	·1045					
		14. 54	·1047 ***					
		17. 45	·1053 ***					
		19. 1	·1053					
		19. 30	·1051					
		20. 6	·1051					
		20. 10	·1052					
		20. 18	·1050					
		20. 31	·1051					
		21. 18	·1045					
		22. 4	·1054					
		22. 36	·1033					
		23. 6.	·1040					
		23. 24	·1036					
		23. 59	·1036					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 20 h m	° ′ ″	Feb. 20 h m		Feb. 20 h m		Feb. 20 h m	°	°
0. 0	21. 47. 30 ***	0. 0	·1036	0. 0	·02282	1. 40	47 ·0	47 ·0
		0. 48	·1037	1. 25	·02241	3. 40	48 ·0	41 ·0
1. 30	47. 30 ***	1. 13	·1035	3. 52	·02020	9. 40	50 ·0	50 ·0
		1. 46	·1034	4. 4	·02017	21. 40	43 ·5	44 ·0
2. 2	48. 40	2. 2	·1036 ***	4. 24	·01968			
2. 17	50. 40			5. 10	·01916			
2. 23	50. 0	3. 18	·1032	5. 35	·01870			
2. 30	50. 40	3. 26	·1039	7. 30	·01728			
2. 59	49. 30	3. 34	·1034	7. 56	·01759			
3. 13	50. 0	3. 53	·1028	8. 58	·01683			
3. 17	51. 0	4. 6	·1031 ***	9. 32	·01673			
3. 22	49. 30 ***			10. 30	·01655			
		5. 13	·1029	10. 50	·01638			
4. 17	47. 20	5. 21	·1013 ***	11. 24	·01650			
4. 32	46. 30 ***			13. 12	·01698			
		6. 28	·1015	14. 55	·01801			
5. 7	47. 15	6. 50	·1023	19. 7	·02096			
5. 15	48. 10	7. 0	·1015	22. 36	·02078			
5. 22	47. 30	7. 13	·1004	23. 24	·02301			
5. 55	49. 15	7. 17	·1002					
6. 32	47. 0 ***	7. 30	·0987					
		7. 45	·1000					
6. 50	48. 30	7. 54	·1000					
7. 0	47. 20	8. 13	·1008					
7. 40	31. 10 ***	8. 20	·1019					
		8. 41	·1013					
8. 30	47. 0 ***	9. 5	·1021					
		9. 24	·1009					
9. 21	44. 30 ***	9. 55	·1028					
		10. 4	·1025					
9. 39	39. 30	10. 9	·1019					
9. 46	35. 15	10. 25	·1018					
9. 52	35. 10	10. 36	·1011					
9. 59	33. 20	10. 54	·0998					
10. 5	33. 30	11. 7	·1011					
10. 23	30. 0	11. 18	·1009					
10. 45	36. 5	11. 44	·1027					
10. 59	31. 50 ***	11. 58	·1015					
		12. 10	·1021					
11. 12	37. 0 ***	12. 33	·1027					
		13. 0	·1027					
11. 25	38. 40 ***	13. 5	·1031					
		13. 18	·1027					
11. 47	45. 0	13. 38	·1028					
12. 2	42. 10	13. 47	·1030					
12. 17	44. 50	14. 0	·1029					
12. 24	44. 30	14. 12	·1033					
12. 32	45. 40 ***	14. 45	·1037					
		16. 8	·1036 ***					
13. 3	45. 30 ***	18. 7	·1043 ***					
14. 0	49. 30 ***	19. 18	·1044 ***					
14. 13	52. 15 ***	19. 37	·1042 ***					
15. 29	47. 20 ***	20. 20	·1041 ***					
19. 9	46. 0 ***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Feb. 20	
h m	° ′ ″
19. 14	21. 45. 0 ***
20. 16	46. 10 ***
21. 0	45. 0 ***
21. 40	47. 0 ***
22. 43	47. 0 ***
22. 52	48. 0 ***
23. 3	47. 0 ***
23. 45	48. 30
23. 59	47. 50
Feb. 21	
0. 0	21. 47. 50
0. 29	49. 30
0. 38	48. 20 ***
2. 41	47. 30 ***
3. 55	46. 30 ***
4. 36	44. 40 ***
8. 3	45. 0 ***
8. 29	44. 30
8. 42	40. 0 ***
9. 16	42. 40 ***
9. 45	37. 55 ***
10. 28	42. 30 ***
10. 39	44. 0 ***
12. 2	44. 5 ***
12. 32	42. 30 ***
13. 7	44. 35
14. 2	44. 50 (†)

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 20	
h m	
20. 51	·1042 ***
22. 8	·1033 ***
22. 42	·1022
22. 45	·1024
22. 56	·1023
23. 7	·1017
23. 38	·1022
23. 45	·1023
23. 59	·1027
Feb. 21	
0. 0	·1027 ***
c. 54	·1031 ***
1. 22	·1022 ***
1. 45	·1030 ***
2. 41	·1028 ***
3. 20	·1031 ***
4. 36	·1030
4. 55	·1032
5. 1	·1031
6. 0	·1027
6. 8	·1031
6. 13	·1029
6. 30	·1028
6. 51	·1032
7. 19	·1030
8. 0	·1033
8. 15	·1032
8. 28	·1037
8. 37	·1040
8. 48	·1045
8. 54	·1046
9. 17	·1037
9. 25	·1040
9. 47	·1038
9. 54	·1037
10. 3	·1037
10. 14	·1031
10. 27	·1035
10. 31	·1033
10. 54	·1035
11. 45	·1036
11. 55	·1038
12. 30	·1038
14. 21	·1042

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 21	
h m	
0. 0	·02316
0. 55	·02307
2. 20	·02245
5. 57	·01967
7. 26	·01820
7. 53	·01781
8. 6	·01763 ·01918
8. 58	·01876
14. 56	·02088
18. 46	·02292
22. 5	·02448
22. 50	·02481
23. 44	·02486

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
Feb. 21		
h m	°	°
1. 40	46 ·0	47 ·0
3. 40	48 ·0	48 ·0
9. 40	48 ·0	49 ·0
21. 40	42 ·8	44 ·0

Göttingen Mean Solar Time.	Western Declination.
Feb. 21	
h m	° ′ ″
14. 30	·1043
16. 46	·1049
18. 47	·1053
19. 29	·1054
21. 4	·1052
22. 18	·1045
22. 51	·1040
22. 55	·1036
23. 43	·1032
Feb. 22	
0. 0	21. 48. 0
0. 55	48. 40
1. 13	48. 30
1. 43	50. 0
2. 1	48. 40
2. 38	48. 50
4. 10	47. 0
4. 45	45. 15
7. 59	44. 30
8. 24	45. 20
9. 30	44. 0
10. 18	45. 20
10. 28	44. 55
10. 37	45. 0
11. 0	44. 50
12. 16	45. 3
12. 47	44. 40
13. 45	45. 0
14. 2	45. 10
14. 25	44. 50
15. 0	45. 50
15. 15	45. 30
15. 19	45. 40
15. 32	45. 3
16. 6	46. 0
16. 14	45. 10
18. 16	44. 30
20. 12	44. 30
21. 15	45. 0
21. 39	44. 20
22. 40	44. 15
23. 40	47. 40
23. 59	48. 0
Feb. 23	
0. 25	21. 50. 0
0. 51	51. 0
1. 35	50. 30
2. 8	51. 15
2. 55	51. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 22	
h m	
c. 0	·1032
0. 22	·1033
0. 38	·1037
1. 39	·1037
2. 11	·1035
2. 53	·1035
3. 15	·1038
4. 40	·1033
5. 15	·1034
5. 34	·1031
6. 15	·1035
7. 7	·1043
7. 15	·1042
8. 0	·1042
9. 10	·1040
9. 41	·1043
10. 2	·1045
10. 37	·1047
11. 45	·1045
12. 0	·1047
12. 38	·1049
13. 48	·1047
12. 59	·1049
13. 11	·1046
13. 27	·1049
13. 37	·1047
14. 26	·1049
15. 25	·1049
15. 47	·1050
17. 28	·1055
18. 45	·1054
19. 12	·1052
19. 48	·1053
20. 15	·1050
20. 21	·1051
21. 0	·1050
21. 51	·1045
22. 34	·1043
23. 59	·1041
Feb. 23	
0. 35	·1041
1. 45	·1035
1. 55	·1031
2. 7	·1030
2. 30	·1033

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 22	
h m	
0. 0	·02499
1. 7	·02440
4. 0	·02183
5. 50	·01945
5. 59	·02018
8. 30	·01897
9. 48	·01864
10. 8	·01870
11. 30	·01842
15. 29	·01883
17. 20	·01923
20. 12	·02000
22. 25	·02099
23. 20	·02140
23. 55	·02146
Feb. 23	
1. 17	·02163
2. 5	·02064
2. 58	·01961
3. 48	·01822
4. 3	·01765

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
Feb. 22		
h m	°	°
1. 40	46 ·0	47 ·0
3. 40	49 ·0	49 ·0
9. 40	50 ·0	50 ·0
21. 40	46 ·0	47 ·0
Feb. 23		
1. 40	49 ·0	50 ·0
3. 40	52 ·0	54 ·0
9. 40	54 ·0	54 ·0
23. 0	49 ·0	50 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in part of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 23	° ′ ″	Feb. 23		Feb. 23		h m	°	°
h m		h m		h m				
3. 47	21. 48. 45	2. 45	·1029	4. 22	·01781			
4. 6	49. 0	3. 17	·1028	4. 42	·01823			
4. 17	47. 40	4. 9	·1035	5. 2	·01776			
4. 47	48. 25	4. 17	·1031	5. 24	·01818			
6. 0	47. 30	4. 37	·1039	7. 27	·01855			
6. 30	46. 0	4. 49	·1037	16. 0	·02004			
6. 44	44. 40	4. 57	·1036	21. 6	·02315			
6. 48	45. 0	5. 39	·1038	23. 16	·02424			
7. 0	40. 35	5. 54	·1038					
7. 12	40. 30	6. 8	·1033					
7. 43	46. 20	6. 33	·1039					
8. 13	45. 10	6. 48	·1030					
8. 45	45. 5	7. 11	·1038					
9. 15	44. 40	7. 40	·1035					
10. 0	45. 0	7. 58	·1037					
10. 43	44. 35	8. 36	·1036					
11. 13	43. 30	8. 43	·1039					
11. 29	44. 0	8. 50	·1037					
11. 49	45. 0	9. 17	·1039					
11. 59	43. 10	9. 30	·1038					
12. 8	42. 50	9. 37	·1040					
13. 16	45. 10		***					
14. 22	45. 45	10. 55	·1039					
14. 35	44. 30	11. 6	·1041					
15. 31	45. 50	11. 18	·1056					
16. 6	45. 0	11. 55	·1047					
16. 50	45. 10	12. 27	·1039					
17. 14	43. 40	13. 49	·1037					
17. 59	45. 55	14. 45	·1040					
19. 57	45. 20	14. 59	·1042					
20. 13	46. 5	15. 6	·1040					
20. 47	44. 50	16. 15	·1040					
20. 59	45. 35	16. 25	·1042					
21. 13	44. 30		***					
21. 43	44. 0	17. 44	·1045					
23. 0	46. 10	18. 20	·1043					
23. 59	48. 5	18. 53	·1047					
		18. 55	·1045					
		19. 26	·1048					
		19. 54	·1049					
		20. 18	·1049					
		20. 37	·1048					
		20. 45	·1046					
		21. 56	·1043					
		23. 17	·1043					
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 0	21. 48. 5	0. 0	·1045	0. 0	·02437	9. 10	52 ·0	53 ·0
		0. 46	·1044	1. 50	·02401	21. 40	46 ·0	47 ·0
0. 51	50. 30	1. 28	·1046	3. 40	·02417			
0. 59	49. 30	1. 55	·1044	5. 47	·02244			
2. 21	50. 30	2. 40	·1044	7. 10	·02101			
2. 55	49. 0	2. 53	·1046	8. 12	·02028			
4. 43	47. 30	3. 1	·1044	8. 45	·02010			
6. 15	46. 30	3. 18	·1047	8. 47	·02123			
9. 14	47. 0	4. 22	·1051	10. 8	·02145			
9. 43	45. 20	5. 30	·1040	15. 22	·02522			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 24	° ′ ″	Feb. 24		Feb. 24		h m	°	°
h m		h m		h m				
9. 53	21. 45. 50	8. 0	·1040	17. 13	·02739			
	***	8. 47	·1044	21. 6	·02791			
10. 20	42. 50	9. 37	·1043	22. 30	·02778			
10. 51	44. 0	10. 12	·1038	23. 59	·02817			
	***	10. 22	·1039					
11. 20	43. 10	10. 36	·1036					
	***	11. 48	·1041					
11. 43	43. 55	11. 53	·1044					
11. 58	43. 15	12. 0	·1041					
12. 3	45. 5	12. 29	·1048					
12. 32	43. 40	12. 50	·1047					
12. 45	42. 50	13. 15	·1042					
13. 28	46. 25	13. 47	·1045					
13. 40	45. 30	13. 51	·1040					
14. 44	44. 30	13. 55	·1044					
14. 54	45. 40	14. 27	·1045					
15. 5	46. 0	14. 41	·1044					
15. 17	48. 0	14. 53	·1046					
16. 0	46. 40	15. 0	·1044					
16. 13	45. 35	15. 18	·1047					
17. 23	44. 10	15. 38	·1046					
17. 41	45. 30	16. 27	·1051					
17. 51	44. 40	17. 0	·1050					
18. 20	46. 30	18. 14	·1054					
18. 53	45. 35	18. 45	·1053					
22. 6	45. 30	19. 56	·1056					
	***	20. 14	·1055					
23. 12	44. 30	21. 35	·1057					
	***	22. 36	·1045					
23. 59	45. 0	23. 31	·1043					
		23. 59	·1039					
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 20	21. 47. 0	0. 0	·1039	1. 3	·02761	1. 40	49 ·0	50 ·0
	***	0. 45	·1045	2. 35	·02664	3. 40	52 ·0	53 ·0
1. 29	49. 30	2. 16	·1043	3. 30	·02536	9. 40	52 ·5	53 ·0
1. 46	49. 0	3. 49	·1040	6. 26	·02001	21. 40	50 ·0	51 ·0
	***	4. 16	·1037	7. 32	·01870			
2. 17	50. 30	4. 35	·1038	7. 34	·01937			
	***	5. 23	·1035	8. 13	·01916			
2. 30	49. 0	5. 34	·1036	8. 43	·01917			
	***	5. 48	·1035	9. 5	·01912			
4. 14	48. 30	6. 9	·1036	14. 52	·02056			
4. 29	47. 15	6. 32	·1033	18. 0	·02202			
5. 41	47. 15	7. 6	·1038	22. 33	·02422			
6. 18	47. 35		***	23. 59	·02408			
6. 57	47. 0	8. 12	·1039					
7. 7	47. 40	8. 28	·1036					
8. 30	46. 0	8. 37	·1040					
8. 47	44. 0	8. 46	·1036					
9. 6	32. 50	9. 7	·1061					
	***	9. 15	·1060					
9. 45	45. 0	9. 33	·1044					
	***	9. 40	·1054					
10. 30	43. 40	9. 55	·1030					
10. 45	44. 15	10. 44	·1038					
	***		***					
11. 13	39. 30	11. 9	·1044					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 25		Feb. 25						
h m	° ′	h m		h m		h m	°	°
11. 25	21. 43. 30	11. 15	·1042					
11. 47	40. 10	11. 30	·1028					
	***	12. 17	·1040					
12. 6	41. 30	13. 0	·1041					
	***	13. 40	·1043					
12. 17	41. 30	14. 22	·1042					
	***	14. 55	·1044					
12. 43	44. 30	15. 6	·1045					
	***							
13. 43	44. 40	16. 0	·1042					
	***	16. 30	·1047					
14. 2	47. 30	17. 44	·1044					
	***	18. 40	·1047					
14. 38	46. 0	20. 12	·1038					
	***	20. 19	·1046					
			***					
15. 45	45. 30							
	***	20. 46	·1048					
16. 5	46. 30	21. 53	·1044					
17. 26	45. 10	23. 45	·1041					
17. 45	46. 30	23. 54	·1038					
19. 15	45. 30							
	***							
21. 45	45. 20							
	***							
22. 10	45. 0							
	***							
23. 59	47. 10							
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 0	21. 47. 20	0. 0	·1043	0. 19	·02394	1. 40	53 · 0	54 · 0
	***	0. 6	·1035	2. 33	·02122	3. 40	53 · 0	57 · 0
1. 15	50. 0	0. 20	·1029	4. 24	·01750	9. 40	55 · 0	56 · 5
	***	0. 53	·1033	4. 35	·01760	21. 40	54 · 5	56 · 0
3. 2	50. 15	1. 40	·1030	5. 36	·01737			
5. 24	45. 40	1. 56	·1034	5. 43	·01781			
7. 2	43. 30	2. 21	·1037	6. 13	·01797			
7. 25	47. 30	2. 34	·1034	6. 20	·01896			
	***	3. 6	·1034	7. 14	·01781			
10. 0	45. 0	3. 22	·1032	7. 35	·01797			
	***	4. 2	·1031	11. 30	·01848			
11. 43	45. 35	5. 18	·1032	14. 41	·01857			
	***	5. 33	·1033	16. 50	·01984			
12. 45	45. 0	6. 14	·1026	20. 25	·02182			
	***	6. 28	·1033	21. 47	·02262			
13. 35	45. 15	6. 45	·1031	23. 42	·02313			
	***	7. 5	·1037					
14. 5	44. 30	7. 51	·1035					
	***	7. 56	·1037					
16. 11	44. 30	9. 29	·1036					
	***	9. 53	·1034					
16. 15	45. 30	10. 9	·1037					
	***	10. 40	·1036					
16. 30	44. 30	10. 47	·1034					
	***	12. 5	·1036					
17. 14	45. 40	12. 14	·1034					
	***	13. 28	·1039					
17. 45	44. 30	13. 46	·1042					
	***	14. 49	·1038					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 26		Feb. 26						
h m	° ′	h m		h m		h m	°	°
20. 8	21. 49. 0	16. 51	·1037					
	***	17. 0	·1041					
21. 28	45. 0	17. 5	·1038					
	***		***					
23. 28	49. 0	18. 40	·1045					
		19. 36	·1044					
		20. 0	·1047					
			***					
		20. 49	·1045					
		21. 25	·1041					
		21. 47	·1043					
		22. 42	·1031					
		23. 23	·1031					
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
1. 40	21. 52. 15	1. 40	·1024	0. 16	·02301	1. 40	56 · 0	58 · 0
3. 40	51. 24*	3. 40	·1023*	1. 4	·02320	3. 40	58 · 0	59 · 0
9. 40	39. 40*	9. 40	·1016*	1. 40	·02303	9. 40	57 · 5	59 · 0
21. 40	44. 33*	21. 40	·1024	3. 50	·02175	21. 40	54 · 0	55 · 0
				5. 22	·02070			
					·02185			
				6. 26	·02160			
				7. 8	·02176			
				7. 38	·02178			
				13. 30	·02263			
				17. 0	·02424			
				19. 5	·02587			
				22. 47	·02774			
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
1. 40	21. 48. 58	1. 40	·1021	0. 0	·02811	1. 40	56 · 0	57 · 0
3. 40	48. 58*	3. 40	·1022*	1. 5	·02803	3. 40	56 · 0	57 · 0
9. 40	38. 17*	9. 40	·1027*	1. 26	·02800	9. 40	55 · 0	56 · 5
21. 40	45. 30	21. 40	·1036	1. 37	·02871	21. 40	49 · 5	51 · 0
				4. 10	·02856			
				6. 5	·02766			
				8. 0	·02742			
				12. 11	·02901			
				12. 26	·02940			
				12. 56	·02955			
				13. 24	·02900			
					·02912			
				16. 37	·02902			
				18. 0	·02894			
				19. 55	·02877			
				23. 15	·02840			
Feb. 29		Feb. 29		Feb. 29		Feb. 29		
	(†)		(†)	0. 0	·02822	1. 40	55 · 0	56 · 0
1. 33	21. 48. 30	1. 37	·1014	1. 10	·02731	3. 40	58 · 5	59 · 0
2. 40	48. 30	3. 19	·1002	2. 45	·02442	9. 40	57 · 5	59 · 0
3. 2	47. 30	3. 43	·1005	5. 17	·01781	21. 40	49 · 5	51 · 0
4. 45	45. 0	3. 47	·1003		·01917			
5. 31	44. 40	4. 6	·1003	6. 5	·01797			
7. 40	45. 0	4. 21	·1003	8. 5	·01758			
8. 6	46. 0	4. 41	·1004	8. 37	·01797			
	***	4. 46	·0997	8. 52	·01870			
9. 17	44. 15		***	9. 50	·01961			
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 29		Feb. 29		Feb. 29				
h m	° ′ ″	h m		h m		h m	°	°
11. 57	21. 46. 30	5. 47	·0099	14. 18	·02502			
	***		***					
					∫ ·02848			
13. 0	45. 35	7. 10	·1000	17. 0	⌊ ·02762			
14. 2	46. 40	7. 54	·1005	18. 35	·02802			
	***	8. 34	·1005	21. 0	·02798			
14. 57	45. 55	8. 37	·1007					
		8. 55	·1005					
18. 31	46. 30	9. 32	·1006					
	***	11. 9	·1011					
19. 51	46. 20	11. 24	·1015					
	(†)	11. 36	·1013					
20. 36	47. 40	12. 24	·1015					
	***	12. 52	·1018					
21. 16	45. 30	13. 18	·1015					
21. 50	47. 0	14. 9	·1019					
	***	15. 15	·1019					
23. 30	36. 40	18. 20	·1028					
	***	20. 1	·1031					
23. 59	47. 0	21. 51	·1029					
		22. 10	·1027					
		22. 34	·1023					
		22. 54	·1023					
		23. 18	·1017					
		23. 59	·1017					
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 0	21. 47. 0	0. 0	·1017	1. 8	·02735	1. 40	51 ·0	52 ·0
0. 43	47. 30	0. 41	·1015	1. 43	·02735	3. 40	53 ·0	54 ·0
	***	0. 52	·1015	3. 13	·02661	9. 40	53 ·5	54 ·5
1. 2	49. 30	1. 5	·1013	4. 37	·02531	23. 19	49 ·0	50 ·0
	***	3. 42	·1013	5. 15	·02419			
2. 1	48. 30	4. 3	·1014	6. 22	·02316			
2. 9	49. 10	4. 18	·1011	8. 5	·02193			
2. 31	48. 10	5. 19	·1018	10. 6	·02174			
3. 0	48. 25	6. 46	·1023	16. 50	·02395			
3. 46	47. 10	7. 6	·1022	18. 1	·02457			
4. 2	47. 5	7. 40	·1023	18. 59	·02509			
4. 15	45. 30	7. 49	·1024	19. 55	·02571			
4. 45	45. 0	8. 15	·1021	23. 19	·02718			
4. 52	45. 10	8. 43	·1022					
5. 1	44. 45	8. 55	·1019					
5. 32	44. 25	9. 29	·1021					
6. 0	44. 35	10. 4	·1027					
6. 13	44. 25	10. 21	·1023					
6. 29	45. 10	10. 46	·1025					
9. 28	45. 0	11. 30	·1025					
9. 47	41. 20	11. 37	·1026					
10. 23	45. 50	12. 45	·1028					
10. 55	45. 0	13. 30	·1027					
11. 52	45. 40	13. 40	·1025					
13. 50	45. 20		***					
14. 13	46. 0	16. 0	·1029					
15. 8	45. 40	16. 15	·1031					
16. 14	46. 10	16. 37	·1030					
16. 33	46. 55	16. 52	·1032					
16. 42	46. 30	17. 55	·1028					
17. 11	45. 20	18. 34	·1033					
17. 17	45. 40	21. 54	·1025					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 1		Mar. 1						
h m	° ′ ″	h m				h m	°	°
17. 30	21. 45. 10	23. 34	·1020					
17. 49	46. 20	23. 59	·1022					
18. 8	46. 45							
18. 18	46. 0							
21. 6	45. 0							
21. 46	44. 0							
22. 5	44. 30							
22. 14	44. 0							
23. 5	46. 20							
23. 13	45. 20							
23. 59	47. 25							
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 0	21. 47. 40	0. 0	·1022	0. 13	·02721	9. 40	50 ·0	51 ·0
1. 1	50. 30	0. 35	·1020	1. 50	∫ ·02775	21. 50	48 ·0	49 ·0
1. 51	49. 20	0. 51	·1022		⌊ ·02670			
2. 15	49. 30	1. 16	·1017	3. 20	·02838			
2. 52	48. 30	2. 29	·1026	4. 57	·02659			
3. 3	48. 50	3. 37	·1024	6. 48	·02763			
3. 17	48. 0	5. 24	·1035	8. 14	·02694			
3. 43	48. 0	6. 49	·1035	8. 50	·02696			
5. 10	45. 50	7. 15	·1031	9. 33	·02717			
9. 21	46. 0	7. 43	·1033	11. 22	·02714			
9. 45	45. 0	8. 7	·1036	13. 11	·02838			
11. 3	45. 30	8. 20	·1035	13. 52	·02815			
12. 0	45. 15	9. 13	·1038	18. 25	·02764			
	***	9. 21	·1035	19. 0	·02760			
14. 28	45. 10	10. 25	·1036	19. 47	·02738			
	***	10. 44	·1033	21. 7	·02717			
14. 47	47. 0	10. 52	·1036	23. 33	·02740			
14. 57	46. 5	11. 0	·1034					
15. 7	46. 30	12. 15	·1034					
15. 15	45. 50	12. 33	·1033					
15. 38	45. 30	13. 7	·1035					
15. 47	43. 30	13. 18	·1033					
16. 5	42. 30	13. 46	·1034					
16. 13	42. 55	14. 5	·1031					
16. 26	42. 30	14. 13	·1033					
16. 35	43. 15	14. 50	·1032					
17. 34	42. 45	15. 29	·1035					
17. 45	43. 10	15. 45	·1034					
17. 54	42. 30	16. 27	·1031					
18. 10	43. 30	16. 45	·1028					
	***	17. 31	·1032					
21. 35	45. 20	19. 42	·1032					
	***	20. 30	·1031					
22. 20	44. 30	21. 8	·1031					
	***	23. 0	·1019					
23. 59	48. 0	23. 54	·1022					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 0	21. 48. 10		(†)	0. 27	·02682	1. 40	51 ·0	52 ·0
0. 47	51. 20	1. 19	·1020	1. 44	·02617	3. 40	53 ·5	53 ·5
	***	2. 0	·1022	3. 26	·02451	9. 40	54 ·0	54 ·0
1. 24	50. 10	2. 27	·1022	4. 50	·02270	21. 40	48 ·0	49 ·0
	***	2. 47	·1018	5. 26	·02182			
3. 26	50. 0	3. 4	·1019	6. 40	·02050			
	***	3. 15	·1017	8. 43	·01927			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Mar. 3	
h m	° ′ ″
4. 5	21. 47. 40
4. 18	48. 0
4. 45	47. 0
5. 4	45. 0
	***
8. 55	45. 20
9. 13	43. 50
9. 32	43. 10
10. 0	45. 20
10. 47	44. 30
11. 2	45. 10
11. 32	44. 40
11. 47	45. 25
12. 1	45. 0
12. 12	45. 20
	***
13. 47	45. 0
	***
14. 25	46. 45
	***
14. 50	44. 10
	***
15. 9	46. 15
	***
15. 59	44. 50
	***
16. 30	46. 0
17. 1	44. 55
	***
17. 13	43. 30
	***
17. 32	44. 30
	***
18. 5	43. 0
19. 2	44. 0
19. 13	45. 0
	***
19. 46	45. 40
19. 55	45. 0
20. 29	46. 30
21. 1	45. 35
	***
21. 45	46. 40
	***
22. 18	45. 30
	***
23. 44	46. 30
Mar. 4	
0. 2	21. 46. 50
1. 8	48. 0
2. 20	47. 45
2. 30	48. 25
3. 0	47. 30
3. 19	47. 50
4. 15	46. 5
4. 23	46. 15
4. 47	45. 10

Göttingen Mean S. lar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 3	
h m	
3. 34	·1018
4. 0	·1016
4. 18	·1017
4. 46	·1013
5. 29	·1019
6. 0	·1021
6. 8	·1025
6. 13	·1022
	***
6. 30	·1023
	***
7. 9	·1026
7. 33	·1019
8. 21	·1022
8. 55	·1026
9. 12	·1026
9. 21	·1029
9. 53	·1028
9. 58	·1027
10. 35	·1032
11. 9	·1029
11. 45	·1031
11. 59	·1027
12. 41	·1029
13. 45	·1029
14. 13	·1031
14. 40	·1037
15. 7	·1036
15. 48	·1040
16. 16	·1035
18. 16	·1047
18. 55	·1043
19. 7	·1045
19. 12	·1040
20. 0	·1041
20. 35	·1046
22. 13	·1039
23. 47	·1033
23. 59	·1021
Mar. 4	
0. 0	·1021
0. 37	·1030
1. 30	·1032
1. 43	·1031
1. 57	·1031
2. 48	·1025
3. 12	·1025
3. 21	·1028
4. 0	·1025

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Mar. 3	
h m	
11. 8	·01970
12. 10	·02036
17. 30	·02400
20. 10	·02606
21. 24	·02637
21. 55	·02525
	·02693
23. 20	·02683
23. 43	·02697
Mar. 4	
0. 0	·02700
1. 24	·02683
2. 15	·02638
6. 0	·02256
7. 56	·02123
9. 19	·02081
10. 8	·02087
10. 40	·02116
10. 56	·02098

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Mar. 4		
1. 40	50 ·0	51 ·0
3. 40	52 ·5	53 ·5
9. 40	52 ·5	53 ·5
21. 40	46 ·0	47 ·0

Göttingen Mean Solar Time.	Western Declination.
Mar. 4	
h m	° ′ ″
6. 25	21. 44. 0
6. 30	45. 0
6. 40	44. 15
	***
7. 2	45. 0
7. 13	44. 0
	***
7. 57	46. 40
8. 17	46. 10
8. 26	45. 0
	***
9. 13	44. 50
9. 17	43. 45
9. 38	43. 30
9. 40	42. 30
10. 10	42. 30
10. 43	45. 10
11. 13	40. 30
11. 33	38. 20
11. 59	42. 0
12. 16:	44. 0
12. 44	44. 10
13. 10	43. 0
13. 59	45. 0
14. 27	44. 0
14. 42	44. 45
14. 53	46. 25
15. 17	45. 0
15. 25	45. 30
15. 52	45. 30
	***
16. 39	42. 5
	***
17. 6	44. 20
19. 21	45. 15
19. 43	45. 0
21. 3	45. 30
21. 17	45. 30
21. 27	44. 0
21. 40	43. 0
22. 10	45. 0
	***
22. 46	45. 0
	***
23. 34	45. 50
23. 59	46. 25
Mar. 5	
0. 0	21. 46. 30
2. 10	47. 15
3. 45	46. 20
6. 30	44. 40
8. 52	44. 25
10. 10	44. 55
10. 28	44. 30
11. 34	45. 25
	***
12. 15	42. 50
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 4	
h m	
4. 24	·1027
5. 0	·1026
5. 14	·1028
5. 40	·1025
6. 21	·1029
6. 45	·1028
7. 8	·1031
7. 34	·1029
7. 45	·1031
8. 44	·1034
8. 55	·1031
9. 6	·1034
9. 44	·1034
10. 24:	·1025
10. 33	·1035
10. 48	·1038
11. 37	·1030
13. 35	·1032
13. 48	·1029
14. 46	·1032
14. 51	·1035
14. 55	·1033
15. 39	·1032
16. 7	·1039
16. 33	·1041
16. 50	·1036
17. 17	·1041
18. 15	·1043
19. 4	·1041
19. 13	·1037
19. 29	·1039
19. 46	·1037
20. 21	·1036
20. 30	·1042
20. 38	·1043
22. 18	·1048
	***
23. 45	·1037
23. 59	·1039
Mar. 5	
0. 0	·1039
2. 54	·1037
3. 7	·1034
3. 13	·1036
5. 0	·1024
8. 50	·1025
11. 31	·1029
11. 44	·1037
11. 56	·1033
12. 29	·1027

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Mar. 4	
h m	
14. 33	·02287
20. 2	·02706
	·02643
22. 24	·02670
22. 58	·02676
23. 45	·02705
Mar. 5	
0. 0	·02684
1. 12	·02702
2. 10	·02663
3. 26	·02557
4. 35	·02421
6. 17	·02183
7. 42	·02040
8. 49	·01938
10. 5	·01918
13. 52	·01966

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Mar. 5		
1. 40	48 ·0	49 ·0
3. 40	51 ·0	52 ·0
9. 40	52 ·5	53 ·0
21. 40	51 ·0	52 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 5		Mar. 5		Mar. 5		Mar. 6		
h m	° ′ ″	h m		h m		h m	°	°
12. 46	21. 44. 30	13. 6	·1029	20. 4	·02251	0. 0	50·5	52·0
	***	14. 31	·1031	22. 30	·02346	3. 40	55·0	56·5
13. 10	43. 30	15. 43	·1032	23. 40	·02317	9. 40	53·0	54·5
	***	16. 25	·1034			21. 40	47·0	48·0
13. 19	44. 35	16. 40	·1035					
	***	17. 17	·1028					
13. 43	44. 35	18. 6	·1045					
	***	19. 40	·1044					
14. 11	45. 55	20. 39	·1048					
	***	22. 21	·1039					
14. 59	43. 40	23. 5	·1032					
	***	23. 59	·1030					
15. 18	42. 45							
15. 31	43. 55							
16. 5	43. 55							
16. 16	43. 10							
16. 31	42. 55							
16. 47	42. 15							
	***							
17. 31	47. 30							
	***							
18. 3	43. 15							
	***							
18. 45	42. 10							
	***							
19. 32	44. 35							
	***							
20. 18	44. 30							
	***							
20. 33	42. 40							
	***							
21. 15	44. 30							
	***							
23. 59	49. 30							
Mar. 6		Mar. 6		Mar. 6		Mar. 7		
0. 0	21. 49. 35	0. 0	·1030	0. 0	·02413	0. 0	21. 47. 0	
	***	1. 3	·1025	1. 14	·02406	2. 15	47. 25	
0. 25	50. 50		(†)	2. 24	·02358	2. 25	46. 40	
	***	2. 42	·1020	2. 56	·02321	2. 30	48. 50	
1. 27	50. 30	3. 27	·1020	5. 10	·02124	3. 2	46. 40	
	***	3. 36	·1016	8. 13	·01920	3. 8	47. 50	
2. 27	51. 35	4. 8	·1018	8. 55	·01893	3. 58	47. 20	
3. 25	52. 40	4. 18	·1015	10. 27	·01912	4. 14	45. 50	
3. 34	51. 30	4. 26	·1016	14. 17	·02081	4. 36	46. 0	
4. 44	49. 0	4. 40	·1014	16. 56	·02280	4. 45	46. 0	
5. 6	49. 45	4. 50	·1016	17. 20	·02285	6. 17	44. 40	
5. 17	48. 40	5. 5	·1015	19. 48	·02532	6. 32	45. 10	
6. 2	47. 50	5. 16	·1009	22. 30	·02680	6. 52	44. 40	
7. 13	47. 10	5. 44	·1007		·02570	8. 2	45. 5	
7. 43	45. 55	6. 30	·1012	23. 59	·02637	8. 18	43. 55	
9. 16	44. 30	6. 53	·1009			8. 27	44. 30	
11. 15	44. 0	7. 8	·1009			8. 44	44. 20	
	***	7. 15	·1007			9. 0	45. 25	
11. 54	44. 10	8. 6	·1014			9. 20	45. 10	
	***	8. 13	·1015			9. 33	45. 30	
12. 2	43. 55	9. 7	·1017			9. 45	45. 0	
	***	9. 54	·1019			10. 59	45. 30	
12. 17	45. 0	10. 8	·1017			12. 32	45. 15	
						13. 30	45. 0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 6		Mar. 6				Mar. 7		
h m	° ′ ″	h m		h m		h m	°	°
12. 55	21. 40. 45	10. 18	·1021			0. 37	48·0	49·0
13. 28	42. 30	11. 10	·1021			1. 42	50·5	51·5
13. 38	41. 10	11. 24	·1026			2. 16	50·0	51·0
13. 45	40. 30	11. 33	·1025			2. 24	42·5	44·0
	***	11. 53	·1027					
14. 0	38. 0	12. 0	·1025					
14. 16	38. 30	12. 15	·1027					
14. 41	42. 0	12. 45	·1026					
	***	13. 0	·1028					
15. 44	41. 50	13. 11	·1024					
15. 49	42. 45	13. 29	·1024					
16. 1	42. 20	13. 42	·1027					
	***	14. 17	·1024					
16. 16	43. 30	14. 34	·1021					
16. 32	43. 15	14. 50	·1025					
16. 57	51. 10	16. 6	·1026					
17. 31	42. 0	16. 53	·1029					
	***	17. 15	·1039					
20. 32	45. 40	17. 27	·1041					
20. 46	46. 30	17. 40	·1036					
21. 0	45. 30	18. 28	·1035					
	***	19. 0	·1036					
22. 28	47. 0	19. 44	·1035					
	***	20. 0	·1023					
23. 59	47. 0	20. 11	·1035					
		20. 50	·1033					
		21. 1	·1030					
		21. 34	·1031					
		22. 14	·1030					
		22. 44	·1033					
		23. 0	·1031					
		23. 34	·1028					
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 0	21. 47. 0		(†)	0. 37	·02641	1. 40	48·0	49·0
2. 15	47. 25	0. 51	·1026	1. 42	·02648	3. 40	50·5	51·5
2. 25	46. 40	2. 3	·1029	2. 16	·02626	9. 40	50·0	51·0
2. 30	48. 50	2. 30	·1028	2. 24	·02540	21. 40	42·5	44·0
3. 2	46. 40	2. 36	·1035	2. 54	·02494			
3. 8	47. 50	2. 52	·1032		·02597			
3. 58	47. 20	3. 7	·1032	5. 28	·02401			
4. 14	45. 50	3. 14	·1037	6. 20	·02317			
4. 36	46. 0	3. 32	·1031	7. 54	·02216			
4. 45	46. 0	4. 0	·1032	9. 0	·02174			
6. 17	44. 40	4. 11	·1023	9. 46	·02168			
6. 32	45. 10	4. 38	·1028	11. 37	·02203			
6. 52	44. 40	4. 44	·1026	13. 57	·02407			
8. 2	45. 5		***	14. 24	·02416			
8. 18	43. 55	6. 13	·1025	16. 10	·02641			
8. 27	44. 30	6. 32	·1032		·02573			
8. 44	44. 20	7. 20	·1029	18. 52	·02614			
9. 0	45. 25	8. 7	·1028	21. 0	·02522			
9. 20	45. 10	8. 24	·1033	22. 35	·02458			
9. 33	45. 30	8. 49	·1027	23. 7	·02465			
9. 45	45. 0	9. 3	·1027	23. 32	·02437			
10. 59	45. 30	9. 15	·1025					
12. 32	45. 15	9. 29	·1027					
13. 30	45. 0	9. 46	·1025					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 7		Mar. 7						
h m	° ′ ″	h m		h m		h m	°	°
14. 13	21. 46. 10	10. 30	·1028					
14. 24	44. 15	10. 41	·1030					
14. 48	43. 0	11. 15:	·1031					
15. 13	44. 0	13. 54	·1036					
15. 22	45. 10	14. 24	·1040					
15. 45	45. 20	14. 40	·1037					
16. 7	44. 0	15. 22	·1045					
16. 37	45. 0	15. 36	·1045					
17. 29	44. 15	16. 15	·1043					
17. 35	45. 55	16. 30	·1043					
17. 47	46. 15	16. 45	·1041					
18. 0	43. 0	17. 28	·1043					
	***	17. 41	·1049					
19. 27	44. 40	18. 3	·1046					
	***	18. 20	·1053					
19. 44	43. 30	18. 30	·1051					
	***	18. 49	·1049					
20. 52	47. 40	18. 56	·1053					
21. 1	45. 15	19. 12	·1053					
	***	19. 51	·1046					
21. 45	49. 30	20. 14	·1045					
	***	20. 19	·1037					
22. 21	47. 0	20. 55	·1033					
	***	21. 2	·1031					
22. 57	50. 0	21. 14	·1035					
	***	21. 18	·1035					
23. 28	47. 0	21. 24	·1032					
23. 59	47. 40	21. 33	·1035					
		21. 53	·1035					
		22. 11	·1017					
		22. 21	·1014					
		22. 32	·1015					
		22. 36	·1013					
		22. 57	·1017					
		23. 59	·1025					
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 0	21. 47. 40	0. 0	·1025	0. 0	·02417	1. 40	45 ·0	46 ·0
0. 27	47. 15	0. 7	·1031	2. 0	·02300	3. 40	48 ·0	49 ·0
2. 42	49. 0	0. 15	·1026	2. 9	·02307	9. 40	50 ·0	51 ·5
2. 53	48. 30	0. 24	·1032	3. 15	·02194	22. 52	46 ·0	47 ·5
3. 15	49. 20	0. 28	·1031	6. 0	·01756			
3. 35	48. 30	0. 45	·1035	8. 11	·01581			
3. 45	48. 30	1. 0	·1031	8. 50	·01547			
4. 39	46. 40	1. 5	·1030		·01643			
4. 57	46. 35	1. 35	·1032	13. 12	·01556			
5. 1	47. 10	1. 53	·1027	16. 50	·01685			
5. 27	46. 40	2. 14	·1033	23. 8	·02017			
6. 16	46. 10	2. 28	·1034					
6. 49	47. 10	2. 30	·1033					
7. 15	47. 10	2. 55	·1035					
7. 20	46. 50	3. 6	·1031					
8. 13	45. 10	3. 27	·1033					
8. 29	43. 0	3. 36	·1032					
8. 40	41. 45	3. 45	·1034					
8. 51	42. 35	5. 28	·1035					
9. 3	42. 5	5. 30	·1027					
	***	5. 33	·1035					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 8		Mar. 8						
h m	° ′ ″	h m		h m		h m	°	°
9. 16	21. 43. 15	6. 11	·1036					
9. 21	42. 40	6. 15	·1037					
10. 3	43. 10	6. 17	·1035					
10. 50	38. 35	6. 33	·1037					
11. 13	39. 0	7. 45	·1032					
11. 20	37. 50	7. 57	·1031					
11. 45	41. 50	8. 14	·1026					
11. 58	38. 50	8. 29	·1028					
12. 26	43. 20	8. 40	·1027					
12. 45	43. 30	9. 0	·1024					
13. 0	42. 35	9. 11	·1023					
13. 30	43. 40	9. 15	·1026					
13. 40	43. 40	9. 18	1023					
14. 10	46. 10	9. 57	·1029					
14. 23	46. 40		***					
14. 35:	45. 30	10. 32	·1025					
14. 46	46. 0	10. 39	·1032					
14. 59	44. 50	10. 55	·1033					
15. 27	45. 30	11. 18	·1045					
15. 37	45. 30	11. 47	·1037					
15. 44	46. 0	12. 7	·1040					
15. 47	45. 15		***					
15. 58	45. 30	13. 20	·1034					
16. 30	45. 55	13. 30	·1037					
17. 13	46. 0	14. 7	·1036					
17. 25	45. 15	14. 15	·1038					
18. 16	46. 5	14. 33	·1035					
18. 49	47. 10	15. 22	·1034					
19. 15	47. 25	15. 35	·1032					
19. 19	46. 55	15. 45	·1034					
20. 14	45. 5	16. 7	·1032					
	***		***					
20. 51	46. 0	16. 56	·1032					
21. 7	45. 30	17. 4	·1040					
21. 21	47. 30	17. 16	·1033					
	***	17. 45	·1029					
22. 10	47. 10	17. 53	·1032					
22. 19	48. 5	18. 20	·1028					
22. 33	50. 0	19. 15	·1032					
	***		***					
23. 45	50. 30	19. 44	·1031					
23. 56	49. 30	19. 59	·1029					
23. 59	50. 20	21. 6	·1035					
		21. 13	·1037					
		21. 47	·1026					
		23. 0	·1012					
		23. 41	·1022					
		23. 54	·1027					
		23. 59	·1025					
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 0	21. 50. 30	0. 0	·1029	0. 0	·02023	9. 15	48 ·0	48 ·5
0. 25:	51. 10	0. 25	·1029	0. 58	·02076	21. 40	45 ·0	46 ·5
0. 50	50. 0	0. 47	·1021	3. 13	·02066			
	***	0. 57	·1021	4. 54	·02017			
1. 2	51. 0	1. 6	·1016	5. 56	·01966			
1. 13	49. 30		***	9. 50	·01858			
	***	1. 15	·1022	14. 25	·01824			
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 9		Mar. 9		Mar. 9				
h m	° ′ ″	h m		h m		h m	°	°
1. 39	21. 50. 30	1. 37	·1026	16. 10	·01883			
1. 43	49. 5	1. 58	·1036	17. 40	·01974			
2. 20	47. 40	2. 9	·1034	19. 37	·02117			
4. 8	45. 20	2. 29	·1037	21. 15	·02199			
5. 30	45. 10		***	22. 10	·02113			
6. 20	46. 10	3. 19	·1034	23. 13	·02081			
7. 18	44. 40		(†)					
7. 31	45. 30	4. 18	·1031					
7. 48	44. 15		***					
7. 59	45. 0	5. 20	·1029					
8. 17	42. 50	6. 3	·1030					
8. 35	44. 35	6. 12	·1033					
9. 25	45. 10	6. 25	·1031					
9. 48	43. 0		***					
10. 12	44. 10	8. 30	·1032					
10. 50	43. 50	8. 45	·1034					
11. 13	44. 0	9. 46	·1031					
11. 53	45. 5	11. 1	·1033					
12. 15	44. 5	12. 33	·1033					
13. 17	45. 35	15. 18	·1034					
14. 24	46. 30	16. 0	·1032					
15. 40	45. 30	16. 35	·1035					
16. 15	46. 30	18. 54	·1037					
18. 17	45. 20	19. 33	·1039					
	***	20. 0	·1036					
19. 46	46. 0	21. 1	·1035					
	***	21. 40	·1036					
21. 25	45. 10	22. 49	·1033					
21. 33	46. 0	23. 59	·1020					
	***							
22. 49	45. 30							
	***							
23. 46	48. 10							
23. 59	47. 30							
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
0. 0	21. 47. 20	0. 0	·1020	1. 13	·02040	1. 40	44 ·0	45 ·0
1. 30	49. 30	0. 27	·1023	2. 55	·01925	3. 40	50 ·0	51 ·0
2. 40	49. 0	1. 37	·1027	3. 42	·01839	9. 40	54 ·7	56 ·0
2. 57	48. 5	2. 27	·1023	4. 47	·01465	21. 40	47 ·0	48 ·0
3. 23	48. 0	2. 43	·1021		·01787			
4. 30	46. 10		***	5. 40	·01716			
5. 0	46. 30	4. 17	·1018	6. 25	·01715			
7. 18	46. 20	4. 40	·1017	6. 54	·01736			
	***	7. 5	·1017	7. 55	·01725			
11. 15	45. 40	7. 21	·1007	8. 28	·01690			
12. 33	46. 0	7. 48	·1021	9. 25	·01658			
13. 33	45. 55	8. 6	·1020	11. 0	·01652			
14. 9	46. 45	8. 21	·1015	11. 58	·01681			
14. 25	46. 5	8. 37	·1017	15. 25	·01840			
14. 47	46. 35	9. 3	·1017	18. 20	·01873			
15. 24	45. 50	9. 14	·1019	21. 52	·02344			
15. 35	46. 10	9. 17	·1018	23. 10	·02448			
16. 31	46. 0	9. 25	·1020	23. 45	·02515			
16. 45	46. 30	13. 18	·1024	23. 59	·02532			
18. 59	44. 55	13. 44	·1022					
19. 20	40. 40	14. 18	·1026					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 10		Mar. 10						
h m	° ′ ″	h m		h m		h m	°	°
19. 30	21. 41. 10	14. 42	·1025					
19. 38	40. 35	15. 9	·1027					
20. 2	44. 5	15. 20	·1025					
20. 30	43. 30	18. 28	·1033					
21. 30	45. 30	19. 13	·1030					
22. 27	45. 40	22. 30	·1021					
23. 59	48. 0	23. 59	·1018					
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 0	21. 48. 0	0. 0	·1018	0. 23	·02537	1. 40	49 ·5	50 ·5
2. 18	49. 10	1. 40	·1018	1. 5	·02537	3. 40	51 ·8	52 ·5
3. 38	47. 30	3. 40	·1019	2. 22	·02466	9. 40	51 ·0	52 ·0
4. 12	46. 30	9. 40	·1026	4. 4	·02302	21. 40	41 ·0	42 ·0
	***	21. 40	·1034	6. 45	·02086			
7. 30	46. 0			7. 2	·02098			
	***				·02236			
8. 30	46. 0			7. 45	·02181			
	***			8. 52	·02203			
9. 5	42. 40			10. 30	·02277			
	***			14. 59	·02770			
9. 32	43. 0				·02602			
9. 51	47. 0			16. 30	·02617			
10. 20	44. 30			18. 5	·02581			
10. 28	44. 40			20. 10	·02564			
10. 36	44. 10			22. 13	·02336			
11. 7	45. 20			23. 15	·02477			
11. 16	46. 10			23. 59	·02469			
11. 32	45. 30							
12. 6	45. 35							
12. 14	46. 5							
12. 44	45. 30							
13. 29	46. 50							
14. 28	45. 50							
14. 47	46. 45							
15. 27	45. 55							
16. 47	46. 10							
17. 44	44. 30							
18. 30	45. 15							
19. 0	43. 0							
19. 16	43. 55							
19. 29	43. 30							
19. 40	44. 0							
19. 46	43. 53							
20. 6	44. 35							
20. 13	43. 10							
20. 15	44. 0							
20. 20	43. 30							
20. 32	44. 30							
20. 40	44. 0							
20. 47	44. 45							
20. 55	44. 25							
21. 17	45. 10							
21. 29	44. 0							
21. 46	45. 0							
21. 55	44. 30							
	***							
23. 59	48. 25							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Mar. 12 h m	° ′ ″
0. 0	21. 48. 20
1. 0	47. 55
2. 45	46. 30
5. 16	43. 40
7. 10	43. 45
8. 32	45. 15
9. 48	45. 0
10. 40	43. 20
10. 59	44. 0
11. 11	45. 50
11. 29	43. 15
11. 47	43. 10
12. 8	43. 50
13. 45	45. 0
14. 28	45. 10
	(†)
17. 43	44. 0
	***
19. 40	44. 40
	***
20. 2	43. 20
	***
20. 43	43. 50
20. 53	42. 35
21. 6	43. 15
21. 16	42. 30
23. 59	46. 20
Mar. 13	
0. 0	21. 46. 30
0. 58	48. 30
2. 2	48. 35
2. 25	49. 55
5. 10	44. 55
6. 38	43. 35
8. 47	44. 0
8. 58	47. 10
9. 13	47. 25
9. 28	45. 20
	***
11. 0	45. 0
	***
11. 47	46. 15
12. 6	43. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 12 h m	
0. 30	·1031
1. 47	·1029
2. 9	·1027
2. 16	·1029
3. 1	·1025
3. 31	·1024
4. 7	·1026
5. 28	·1023
6. 30	·1027
7. 0	·1026
7. 11	·1028
7. 55	·1027
10. 37	·1032
10. 45	·1032
10. 58	·1034
11. 21	·1031
11. 30	·1033
12. 5	·1034
12. 47	·1034
13. 47	·1032
14. 37	·1036
15. 11	·1036
15. 32	·1038
15. 54	·1037
16. 32	·1038
17. 5	·1043
17. 35	·1042
18. 6	·1045
18. 10	·1047
18. 40	·1045
19. 2	·1041
	***
19. 55	·1043
20. 7	·1046
	***
21. 15	·1042
22. 25	·1033
22. 49	·1027
23. 20	·1028
23. 46	·1026
23. 59	·1023
Mar. 13	
0. 0	·1023
0. 34	·1020
1. 30	·1010
1. 41	·1012
1. 48	·1011
1. 55	·1012
2. 18	·1011
2. 30	·1012
3. 3	·1011
4. 24	·1013
4. 34	·1006
6. 30	·0997
6. 52	·0999
6. 54	·1007
7. 14	·1006

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Mar. 12 h m	
0. 35	·02431
1. 32	·02381
2. 30	·02277
5. 14	·01772
6. 5	·01670
6. 55	·01612
9. 13	·01685
14. 57	·02058
19. 11	·02404
20. 8	·02461
21. 29	·02560
	·02500
22. 44	·02492
23. 22	·02536
Mar. 13	
0. 0	·02551
0. 41	·02556
1. 27	·02521
2. 10	·02422
3. 22	·02181
4. 42	·01890
	·01974
6. 26	·01975
7. 3	·02022
9. 11	·02061
14. 26	·02384
16. 13	·02612
	·02630
19. 47	·02584
20. 45	·02563

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12 h m	°	°
1. 40	45 ·0	46 ·0
3. 40	48 ·0	48 ·5
9. 40	50 ·0	50 ·0
21. 40	42 ·0	44 ·0
Mar. 13 h m		
1. 40	52 ·0	52 ·0
3. 40	51 ·0	52 ·0
9. 40	51 ·0	51 ·0
21. 40	43 ·0	44 ·0

Göttingen Mean Solar Time.	Western Declination.
Mar. 13 h m	° ′ ″
12. 45	21. 44. 30
13. 31	44. 40
14. 1	44. 15
14. 31	45. 10
15. 48	44. 35
19. 57	45. 35
20. 26	45. 10
	(†)
21. 40	44. 4 *
Mar. 14	
0. 3	21. 49. 0
0. 55	50. 30
	***
2. 12	50. 30
2. 48	48. 35
3. 45	47. 30
4. 17	47. 0
5. 16	46. 0
5. 59	44. 40
6. 40	44. 40
6. 56	44. 20
7. 22	44. 30
7. 45	44. 10
8. 20	44. 30
9. 4	44. 20
9. 20	42. 45
10. 17	43. 30
10. 28	44. 35
11. 47	44. 30
12. 18	44. 0
13. 10	44. 20

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Mar. 13 h m	
7. 20	·1011
7. 43	·1007
7. 50	·1013
8. 12	·1014
8. 25	·1016
8. 44	·1016
8. 53	·1018
9. 13	·1016
9. 21	·1017
9. 55	·1017
10. 6	·1019
10. 20	·1016
10. 29	·1017
10. 40	·1023
10. 44	·1014
10. 58	·1023
	***
12. 30	·1018
12. 55	·1026
13. 9	·1023
14. 12	·1024
14. 52	·1029
16. 39	·1030
17. 48	·1034
18. 0	·1037
	***
19. 53	·1037
20. 47	·1036
21. 4	·1042
21. 33	·1037
21. 45	·1038
	***
22. 32	·1035
23. 30	·1028
23. 59	·1022
Mar. 14	
0. 0	·1021
1. 12	·1010
1. 18	·1007
1. 27	·1006
2. 16	·1006
	***
2. 43	·1004
3. 37	·1010
3. 50	·1007
4. 4	·1010
	***
4. 24	·1007
4. 33	·1011
5. 13	·1007
5. 45	·1008
5. 58	·1011
6. 3	·1013
6. 8	·1011
6. 20	·1014
6. 48	·1016
7. 15	·1013

Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Mar. 13 h m	
23. 42	·02541
Mar. 14	
0. 12	·02508
1. 26	·02483
1. 54	·02461
3. 32	·02243
4. 42	·02041
5. 56	·01876
6. 47	·01856
7. 24	·01885
9. 52	·01922
11. 35	·01984
14. 46	·02194
14. 53	·02375
15. 36	·02451
19. 5	·02572
	·02460
21. 39	·02503
23. 10	·02492
23. 45	·02498

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Mar. 14		
1. 40	46 ·0	46 ·0
3. 40	49 ·0	50 ·0
9. 40	50 ·0	51 ·0
21. 40	42 ·0	44 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 14		Mar. 14						
h m	° ′ ″	h m		h m		h m	°	°
13. 17	21. 45. 30	7. 22	·1016					
			***					
13. 45:	43. 50							
14. 15	45. 0	8. 6	·1015					
14. 47	45. 0	8. 19	·1018					
15. 10	44. 25	8. 45	·1016					
15. 28	43. 25	9. 7	·1019					
16. 38	44. 30	9. 15	·1018					
17. 13	45. 40	9. 39	·1022					
17. 24	44. 30	10. 3	·1023					
	***	10. 25	·1021					
18. 11	43. 50	10. 46	·1025					
	***	11. 4	·1025					
18. 59	43. 30	11. 15	·1023					
	***	11. 40	·1027					
20. 18	42. 20	12. 3	·1025					
20. 29	41. 30	13. 30	·1029					
20. 58	43. 30	13. 50	·1025					
	***	14. 22	·1029					
21. 36	49. 40	15. 6	·1031					
	***	15. 54:	·1029					
22. 17	48. 30	16. 32	·1032					
	***	17. 7	·1038					
22. 28	50. 10	17. 12	·1037					
	***	17. 41	·1041					
22. 40	48. 50	17. 46	·1039					
22. 45	50. 0	18. 0	·1044					
	***		***					
23. 47	51. 20	19. 6	·1046					
23. 59	51. 55		***					
		20. 29	·1045					
		21. 9	·1029					
		21. 39	·1022					
		22. 2	·1013					
		23. 47	·1011					
		23. 59	·1013					
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 0	21. 51. 55	0. 0	·1013	0. 16	·02481	1. 40	44 ·0	45 ·0
	(†)	0. 20	·1013	1. 7	·02501	3. 40	46 ·0	47 ·0
3. 43	51. 20	0. 30	·1003	2. 10	·02456	9. 40	46 ·0	47 ·0
4. 7	44. 50		***	4. 22	·02314	22. 40	43 ·0	45 ·0
	***	1. 20	·1016	5. 42	·02160			
4. 32	46. 30		***	9. 10	·02066			
4. 45	45. 55	3. 15	·1015	9. 32	·02081			
6. 58	45. 0		***	10. 24	·02052			
7. 7	43. 40	3. 33	·1012	17. 43	·02191			
7. 17	44. 30	3. 51	·0984	20. 37	·02314			
8. 14	42. 55	4. 17	·1010	21. 15	{·02361			
8. 38	43. 50		***		{·02297			
8. 47	45. 10	5. 0	·1017	21. 52	·02292			
9. 22	39. 0	5. 12	·1018	23. 35	·02256			
9. 40	42. 0							
9. 45	41. 15	6. 17	·1018					
10. 30	42. 0	6. 45	·1020					
10. 47	44. 10	6. 50	·1016					
11. 17	43. 15	7. 13	·1019					
12. 13	45. 20	7. 38	·1016					
12. 40:	44. 30	8. 20	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 15		Mar. 15						
h m	° ′ ″	h m		h m		h m	°	°
13. 29	21. 44. 35	8. 30	·1022					
14. 10	45. 10	8. 41	·1025					
	***	9. 10	·1021					
16. 39	44. 40	9. 21	·1031					
17. 10	44. 0	9. 47	·1032					
	***	10. 4	·1046					
20. 43	41. 30	10. 32	·1031					
	***	10. 48	·1036					
21. 43	43. 0	11. 22	·1028					
21. 46	43. 40	12. 1	·1026					
22. 1	43. 0	12. 27	·1031					
22. 45	44. 5	12. 37	·1027					
23. 2	45. 20	13. 32	·1025					
23. 10	45. 10	13. 55	·1024					
23. 40	46. 35	14. 9	·1027					
		15. 55	·1027					
		16. 18	·1030					
		17. 40	·1030					
		18. 17	·1033					
		18. 40	·1036					
			***					
		21. 3	·1034					
		21. 37	·1033					
		22. 0	·1030					
		22. 7	·1032					
		23. 37	·1027					
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 0	21. 46. 20	0. 12	·1025	0. 13	·02241	10. 48	48 ·5	50 ·0
	***		***	2. 56	·02160	21. 40	47 ·0	49 ·0
1. 47	47. 50	3. 15	·1022	4. 45	·02037			
3. 21	46. 45	3. 22	·1024	6. 12	·01917			
3. 48	45. 50		***	7. 35	·01867			
7. 15	45. 15	6. 54	·1025	9. 43	·01748			
7. 59	44. 30	7. 26	·1026	10. 51	·01705			
9. 18	44. 50	8. 30	·1025	14. 43	·01656			
9. 31	43. 50	10. 34	·1026	16. 30	·01666			
10. 28	45. 10	10. 45	·1029	18. 27	·01725			
10. 43	43. 50	11. 15	·1026	19. 35	·01781			
	***	12. 30	·1024	22. 52	·01886			
11. 30	45. 25		***	23. 6	·01868			
	***	15. 0	·1026	23. 51	·01852			
12. 20:	44. 30	16. 30	·1027					
	***	17. 52	·1031					
16. 24	44. 30	18. 45	·1032					
	***	19. 44:	·1031					
19. 31	44. 0	21. 50	·1020					
	***	22. 47	·1017					
20. 43	42. 30	23. 15	·1015					
	***	23. 59	·1015					
22. 46	43. 50							
	***							
23. 59	46. 40							
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 0	21. 46. 50	0. 0	·1015	1. 10	·01818	1. 40	49 ·0	50 ·0
	(†)	0. 53	·1018	2. 7	·01780	3. 40	51 ·0	52 ·0
1. 13	48. 0	1. 50	·1021	3. 51	·01631	9. 40	53 ·0	53 ·5
1. 24	47. 50	2. 16	·1023	3. 56	·01650	21. 40	48 ·0	50 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
Mar. 17		Mar. 17		Mar. 17				
h m	° ′ ″	h m		h m		h m	°	°
1. 33	21. 49. 0	2. 33	·1019	7. 3	·01657			
1. 40	48. 30	3. 3	·1021	7. 44	·01683			
2. 16	48. 30	3. 8	·1025	9. 30	·01646			
2. 39	47. 30	3. 21	·1021	11. 2	·01637			
4. 34	45. 10	3. 28	·1024	15. 31	·01816			
5. 30	44. 15	3. 40	·1021	17. 45	·01930			
5. 57	44. 25	3. 50	·1023	19. 25	·02044			
6. 25	43. 50	4. 1	·1019	21. 37	·02132 } ·02060 }			
6. 45	44. 30	5. 51	·1017					
7. 5	43. 30	6. 10	·1018	22. 29	·02055			
7. 34	39. 50	6. 53	·1016	22. 52	·02026			
8. 27	42. 40	7. 27	·1005	23. 37	·02025			
8. 34	42. 25	7. 52	·1012					
10. 24	44. 40	8. 9	·1013					
10. 31	45. 35	8. 15	·1015					
10. 44	45. 0	8. 40	·1011					
11. 14	45. 15	9. 0	·1015					
12. 6	45. 0	10. 21	·1022					
12. 14	45. 30	10. 28	·1028					
12. 47	44. 25	10. 33	·1025					
12. 59	45. 0	10. 58	·1026					
13. 6	43. 55	11. 13	·1029					
13. 13	44. 30	11. 54	·1026					
14. 20	44. 50	12. 14	·1031					
15. 27	43. 50	12. 39	·1030					
15. 47	44. 15	12. 45	·1025					
16. 10	45. 30	12. 54	·1030					
16. 20	45. 10	13. 7	·1023					
16. 46	48. 30	13. 12	·1027					
17. 10	47. 10	13. 24	·1026					
17. 30	42. 40	13. 55	·1025					
17. 50	41. 15	14. 28	·1028					
18. 18	42. 30	15. 24	·1029					
18. 30	44. 30	15. 30	·1027					
18. 40	43. 10 ***	16. 18	·1029					
		16. 49	·1027					
20. 45	43. 30 ***	17. 5:	·1041					
		17. 26	·1042					
21. 40	43. 15 ***	18. 20	·1035					
		18. 27	·1036					
22. 39	44. 0 ***	18. 34	·1031 ***					
23. 47	46. 40	19. 2	·1038 ***					
		19. 8	·1038					
		19. 11	·1036 ***					
		19. 40	·1030 ***					
		19. 47	·1032 ***					
		21. 0	·1023					
		22. 21	·1019 ***					
		23. 12	·1016					
		23. 19	·1009					
		23. 30	·1012					
		23. 59	·1007					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet
Mar. 18		Mar. 18		Mar. 18		Mar. 18		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 47. 20	0. 0	·1007	0. 0	·01999	1. 40	51 ·0	52 ·0
0. 8	47. 10	0. 6	·1012	1. 52	·01922	3. 40	54 ·0	55 ·0
0. 18	50. 20	0. 22	·1004		·01788	9. 40	56 ·0	56 ·0
0. 42	49. 30	1. 30	·1013	4. 7	·01844	21. 40	51 ·0	54 ·0
1. 10	51. 10	1. 37	·1005 ***	6. 12	·01744			
1. 32	53. 30			7. 55	·01746			
1. 42	51. 40	2. 9	·1003	10. 5	·01705			
2. 13	52. 5	2. 21	·1000	12. 7	·01697			
2. 15	51. 10	2. 36	·1006 ***	12. 35	·01675			
2. 25	51. 5			13. 56	·01718			
2. 40	53. 50	2. 52	·0988	18. 25	·01981			
2. 49	51. 0	3. 24	·1005	20. 52	·02114			
2. 56	48. 40	3. 40	·1009 ***	23. 24	·02175			
3. 15	47. 55			23. 59	·02170			
3. 44	47. 50	4. 18	·1010					
3. 51	47. 0	4. 26	·1006					
4. 2	47. 30	5. 6	·1009					
5. 14	45. 15	5. 15	·1004					
6. 42	44. 0	5. 22	·1005					
6. 48	42. 50	6. 30	·1009					
7. 12	44. 30	6. 45	·1007					
7. 38	44. 15	6. 53	·1013					
8. 10	41. 45	7. 9	·1001					
8. 16	41. 45	7. 33	·1000					
8. 32	40. 30	8. 7	·1003					
8. 48	42. 30	8. 24	·1005					
9. 12	41. 10	8. 34	·1008					
9. 18	42. 30	9. 0	·0996					
9. 38	38. 10	9. 6	·0995					
	(†)	9. 15	·1003					
21. 40	43. 47*	9. 32	·0997					
		9. 39	·0999 (†)					
		21. 40	·1010**					
Mar. 19		Mar. 19		Mar. 19		Mar. 19		
0. 35	21. 51. 30 ***	0. 39	·0999	0. 43	·02095	1. 40	55 ·0	55 ·0
		0. 58	·0997	2. 22	·02023	3. 40	56 ·0	57 ·0
1. 35	52. 40 ***	1. 15	·0992	4. 15	·01804	9. 40	59 ·0	59 ·5
		1. 36	·0996		·01930	21. 40	53 ·0	54 ·0
1. 51	51. 20 ***	1. 50	·0991	6. 52	·01836			
		2. 42	·0994	8. 23	·01794			
2. 18	51. 30	2. 58	·0994	9. 37	·01742			
3. 17	48. 15	3. 22	·0997 ***	10. 15	·01730 } ·01820 }			
3. 50	48. 35							
4. 45	46. 40	3. 52	·0998 ***	11. 16	·01810			
5. 0	45. 20			14. 13	·01924			
5. 13	45. 0 ***	5. 0	·0997	18. 5	·02218			
		5. 15	·0994	20. 46	·02472			
5. 16	42. 20 ***	5. 36	·1005	22. 15	·02560			
		5. 50	·0998	23. 41	·02663			
5. 27	41. 30 ***	5. 58	·1000					
		6. 4	·0996					
5. 40	42. 50 ***	6. 45	·0998					
		7. 20	·0997					
7. 47	43. 5	7. 40	·1001					
7. 59	42. 0	7. 57	·1000					
8. 7	42. 45	8. 12	·1013 ***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 19		Mar. 19						
h m	° ′ ″	h m		h m		h m	°	°
8. 13	21. 42. 0	8. 52	·1006					
8. 15	43. 30	9. 7	·1015					
8. 20	41. 25	9. 46	·1003					
8. 42	40. 30	10. 17	·0999					
9. 8	41. 45	10. 36	·1004					
9. 17	40. 30	11. 46	·1005					
10. 15	44. 40	12. 45	·1007					
11. 17	40. 35	13. 23	·1009					
12. 40	45. 30	13. 32	·1011					
13. 2	46. 45	14. 6	·1011					
13. 37	47. 0	14. 27	·1012					
13. 46	46. 0	14. 51	·1011					
14. 50	45. 30	15. 37	·1014					
15. 1	46. 5	16. 34	·1014					
17. 0	45. 0	16. 45	·1013					
17. 12	45. 50	17. 7	·1016					
18. 15	45. 0	17. 57	·1017					
	***	18. 30	·1015					
21. 30	44. 30	19. 0	·1017					
	***	19. 7	·1014					
23. 59	47. 30	19. 46	·1016					
		20. 24	·1014					
		20. 45	·1014					
		21. 30	·1008					
		21. 50	·1010					
		22. 9	·1009					
		23. 51	·1009					
		23. 59	·1006					
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 0	21. 48. 0	0. 0	·1006	0. 10	·02681	1. 40	54 ·0	55 ·0
0. 57	49. 30	1. 18	·1010	1. 40	·02695	3. 40	55 ·0	56 ·0
1. 16	51. 0		***	3. 37	·02677	9. 40	57 ·5	59 ·0
1. 43	49. 0	1. 56	·1008	4. 33	·02620	22. 10	51 ·0	53 ·0
2. 17	49. 0	2. 9	·1010	7. 10	·02308			
2. 32	47. 55	2. 28	·1004	8. 22	·02225			
3. 0	47. 10		**	10. 42	·02193			
3. 15	47. 40	3. 24	·1004	15. 8	·02452			
3. 58	47. 0	3. 35	·1002	16. 23	·02771			
4. 30	44. 45	3. 53	·1006	16. 29	·02750			
5. 5	44. 20	4. 9	·1005	22. 28	{·02711 ·02542			
5. 28	43. 30	4. 22	·0999					
7. 45	43. 10	5. 7	·1001	23. 5	·02563			
8. 45	45. 15	5. 48	·1005					
9. 21	45. 15	6. 40	·1008					
9. 35	45. 5	8. 2	·1006					
10. 5	45. 25	8. 40	·1011					
10. 48	44. 35	9. 23	·1009					
11. 21	45. 10	12. 45	·1017					
13. 3	45. 10	12. 51	·1015					
13. 15	46. 0	13. 18	·1018					
13. 30	44. 40	13. 32	·1016					
14. 0	45. 10	14. 12	·1019					
14. 17	44. 10	14. 45	·1016					
16. 9	45. 0	16. 50	·1021					
16. 25	44. 30	17. 2	·1019					
17. 5	45. 5	17. 35	·1022					
18. 17	43. 30	18. 30	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 20		Mar. 20						
h m	° ′ ″	h m		h m		h m	°	°
19. 48	21. 44. 15	19. 18	·1020					
20. 8	42. 5	20. 2	·1014					
20. 44	44. 30	21. 17	·1015					
22. 17	45. 30	21 53	·1011					
22. 45	47. 10		(†)					
23. 59	50. 0	23. 59	·1016					
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 0	21. 50. 0	0. 0	·1016	0. 0	·02572	9. 40	50 ·0	52 ·0
0. 19	49. 50	1. 25	·1022	4. 58	·02561	21. 40	47 ·0	48 ·0
1. 0	50. 40	1. 50	·1022	6. 23	·02527			
1. 27	50. 20	2. 21	·1020	12. 27	·02516			
1. 35	51. 10	3. 5	·1020	13. 14	·02457			
1. 59	51. 15	3. 29	·1023	15. 15	·02448			
4. 30	46. 10	4. 0	·1022	18. 24	·02455			
5. 28	45. 20	4. 11	·1024	19. 10	·02464			
8. 44	45. 20	5. 19	·1023	20. 27	·02457			
9. 7	45. 45	6. 26	·1019	23. 22	·02466			
10. 46	45. 35	7. 0	·1026					
11. 17	46. 0	7. 35	·1029					
	***	9. 0	·1029					
19. 17	44. 40	9. 45	·1030					
	***	9. 58	·1029					
20. 6	42. 25	10. 9	·1031					
	**	11. 22	·1031					
21. 27	42. 20	11. 43	·1032					
	***	12. 0	·1030					
23. 0	44. 30	13. 37	·1033					
	***	13. 43	·1035					
23. 59	48. 0	15. 8	·1034					
		17. 10	·1038					
		19. 21	·1036					
			***					
		20. 0	·1030					
		21. 33	·1026					
		22. 17	·1018					
		23. 18	·1014					
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 0	21. 47. 30	0. 22	·1010	0. 31	·02378	1. 40	50 ·0	51 ·0
0. 28	51. 0	0. 51	·1013	1. 50	·02307	3. 40	52 ·0	54 ·0
0. 50	53. 35		***	2. 15	·02236	9. 40	54 ·0	56 ·0
1. 43	53. 0	1. 30	·1008	5. 19	{·01764 ·01878	22. 5	48 ·0	49 ·5
1. 55	54. 0	1. 51	·1014					
3. 19	51. 30	2. 4	·1012	6. 25	·01798			
3. 41	50. 30	2. 25	·1016	9. 22	·01736			
4. 0	50. 30	2. 56	·1013	10. 58	·01761			
4. 25	48. 30	3. 24	·1014	15. 0	·01998			
4. 32	48. 30	3. 37	·1013	20. 25	{·02663 ·02548			
5. 27	46. 20	3. 50	·1015					
5. 52	46. 20	4. 11	·1014	23. 20	·02562			
6. 17	44. 50	4. 15	·1012					
8. 16	44. 10	4. 27	·1013					
8. 50	45. 0	4. 50	·1006					
9. 20	40. 40	5. 3	·1005					
10. 22	43. 30	5. 40	·1011					
10. 33	42. 10	6. 0	·1006					
11. 13	45. 15	6. 22	·1008					

March 18. Between the hours of $9^h.38^m$ and 24^h, the Western Declination varied from $21^\circ.40'$ to $21^\circ.54'$; and the Horizontal Force changed from ·1009 to ·1045.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 22		Mar. 22						
h m	° ′ ″	h m		h m		h m	°	°
11. 20	21. 45. 0	6. 45	·1014					
11. 43	45. 50	6. 52	·1013					
	***	7. 45	·1015					
13. 8	45. 30	8. 20	·1013					
13. 16	46. 10	8. 54	·1014					
13. 26	46. 10	9. 4	·1011					
13. 31	45. 30	9. 34	·1013					
13. 48	45. 50	9. 50	·1009					
14. 7	47. 30	10. 8	·1008					
14. 43	45. 10	10. 18	·1012					
15. 1	45. 10	10. 30	·1009					
15. 35	46. 25	10. 43	·1011					
16. 0	45. 55	10. 48	·1007					
	***	11. 34	·1015					
19. 25	44. 30	12. 6	·1017					
	***	12. 22	·1015					
20. 44	42. 40	13. 29	·1017					
	***	14. 23	·1022					
23. 59	46. 40	14. 51	·1017					
		15. 22	·1017					
		15. 57	·1020					
		19. 42	·1028					
		21. 2	·1029					
		22. 7	·1024					
		22. 34	·1025					
		22. 39	·1022					
		23. 30	·1021					
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
0. 0	21. 46. 50	0. 0	·1025	0. 0	·02584	8. 40	51 ·5	52 ·0
	***	0. 47	·1027	2. 18	·02590	21. 40	46 ·0	47 ·0
1. 33	51. 20	0. 55	·1027	3. 24	·02549			
2. 0	51. 15	1. 36	·1028	4. 32	·02480			
2. 17	52. 40	2. 0	·1026	7. 0	·02235			
2. 48	51. 10	2. 39	·1030	9. 17	·02289			
	***	2. 50	·1028	11. 30	·02028			
5. 28	46. 10	3. 21	·1028	13. 25	·02144			
7. 39	46. 30	3. 57	·1033	14. 52	·02240			
8. 2	42. 10	4. 30	·1031	16. 16	·02297			
8. 12	42. 5	6. 1	·1030	20. 14	·02557			
8. 31	37. 0	7. 7	·1032	21. 30	{ ·02612			
9. 4	43. 10	7. 28	·1035		{ ·02532			
	***	7. 5	·1031	23. 59	·02556			
9. 51	44. 30	8. 11	·1031					
	***	9. 48	·1024					
10. 50	44. 30	10. 46	·1027					
	***	10. 58	·1039					
11. 30	41. 30	11. 12	·1039					
	***	11. 43	·1031					
12. 11	41. 30	12. 1	·1033					
12. 16	42. 30	13. 11	·1029					
12. 40	42. 30	13. 45	·1028					
12. 58	43. 55	14. 5	·1024					
13. 15	43. 25	14. 26	·1027					
	***	16. 32	·1022					
14. 8	44. 40	17. 24	·1026					
	***	17. 30	·1024					
14. 37	45. 25	18. 50	·1030					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 23		Mar. 23						
h m	° ′ ″	h m		h m		h m	°	°
14. 47	21. 45. 0	19. 25	·1030					
	***	19. 55	·1027					
15. 14	47. 30	20. 11	·1027					
15. 41	47. 40	20. 29	·1034					
16. 29	45. 30	22. 17	·1019					
17. 17	44. 35	22. 30	·1016					
19. 31	45. 30	22. 43	·1018					
20. 0	42. 35	22. 48	·1017					
21. 30	42. 45	23. 59	·1015					
21. 40	43. 30							
21. 47	43. 0							
	***							
22. 32	43. 30							
	***							
23. 59	48. 0							
Mar. 24		Mar. 24		Mar. 24		Mar. 24		
0. 0	21. 48. 15	0. 0	·1015	1. 29	·02542	1. 40	49 ·0	49 ·0
	***	1. 3	·1014	2. 52	·02444	3. 40	51 ·0	52 ·0
1. 0	51. 20	1. 50	·1017	4. 27	·02250	9. 40	52 ·0	53 ·0
	***	2. 32	·1018	6. 30	·01977	21. 40	46 ·0	48 ·0
2. 17	51. 0	2. 52	·1016	7. 29	·01901			
3. 15	49. 30	3. 9	·1017	9. 27	·01851			
5. 17	45. 5	3. 34	·1015	11. 10	·01898			
7. 43	44. 15	4. 4	·1015	15. 49	·02216			
9. 47	45. 55	4. 20	·1012	17. 33	·02370			
	***	5. 46	·1013	20. 13	·02557			
12. 23	45. 5	7. 43	·1016	20. 47	{ ·02594			
	***	8. 0	·1015		{ ·02533			
12. 47	44. 0	9. 5	·1018	22. 45	{ ·02540			
13. 16	44. 30	9. 54	·1017		{ ·02357			
13. 31	45. 15	10. 30	·1021	23. 59	·02358			
14. 31	44. 30	10. 54	·1026					
15. 13	45. 30	11. 12	·1021					
	***	11. 45	·1020					
17. 27	44. 30	12. 0	·1023					
19. 33	45. 15	12. 13	·1022					
20. 13	43. 30	12. 40	·1025					
	***	12. 51	·1024					
22. 1	43. 0	13. 47	·1025					
	***	15. 7	·1024					
23. 59	48. 5	16. 33	·1028					
		17. 35	·1031					
		18. 14	·1028					
		19. 12	·1032					
		20. 57:	·1032					
		22. 30	·1020					
		23. 59	·1014					
Mar. 25		Mar. 25		Mar. 25		Mar. 25		
0. 0	21. 48. 15	0. 0	·1012	0. 0	·02542	1. 40	49 ·0	50 ·0
1. 30	51. 40	1. 15	·1014	1. 53	·02298	3. 40	50 ·0	51 ·0
	***	1. 30	·1018	3. 10	·02496	9. 40	51 ·0	52 ·0
3. 25	48. 10	2. 37	·1020	7. 5	·01850	21. 40	46 ·0	47 ·0
	***		***	9. 20	·01784			
4. 46	45. 30	3. 54	·1021	11. 15	·01865			
	***	4. 6	·1016	17. 28	·02289			
7. 0	43. 30	4. 40	·1018	19. 21	·02416			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.25		Mar.25		Mar.25				
h m	° ′ ″	h m		h m		h m	°	°
7. 28	21. 45. 10	6. 20	·1016	20. 47	·02478			
7. 57	45. 0	7. 0	·1015	21. 43	·02498			
	***	7. 28	·1018	22. 40	·02415			
8. 52	45. 35	8. 14	·1019	23. 59	·02396			
	***	10. 42	·1023					
9. 21	44. 15	11. 36	·1023					
	***	11. 56	·1033					
10. 28	45. 10	12. 25	·1025					
	***	12. 50	·1024					
11. 43	45. 5	13. 21	·1030					
	***	13. 40	·1026					
12. 27	42. 45	14. 41	·1028					
	***	15. 40	·1030					
13. 2	45. 30	19. 0	·1033					
	***	21. 49	·1022					
14. 18	44. 50	22. 26	·1018					
14. 31	45. 30	23. 15	·1015					
	***	23. 22	·1012					
18. 32	44. 45	23. 47	·1013					
19. 3	43. 20							
19. 18	43. 40							
	***							
20. 22	42. 30							
	***							
22. 36	43. 15							
	***							
23. 59	47. 30							
Mar.26		Mar.26		Mar.26		Mar.26		
0. 0	21. 47. 55	0. 15	·1012	0. 4	·02382	1. 40	48 ·0	49 ·0
	***	1. 7	·1013	1. 22	·02317	3. 40	50 ·0	51 ·0
1. 55	50. 30	3. 8	·1016	2. 27	·02258	9. 40	50 ·0	51 ·0
	***		***	5. 32	·01968	21. 40	42 ·0	44 ·0
3. 18	48. 0	3. 45	·1014	7. 0	·01890			
5. 20	44. 20	4. 22	·1015	8. 18	·01881			
6. 27	44. 20	4. 26	·1012	9. 20	·01866			
7. 17	45. 10	4. 45	·1014	11. 15	·01946			
11. 14	45. 10	5. 40	·1016	18. 18	·02500			
11. 27	44. 30	6. 17	·1015		·02416			
11. 51	44. 40	7. 45	·1020	19. 25	·02445			
12. 40	44. 0	9. 37	·1026	20. 22	·02448			
13. 39	46. 10	10. 10	·1028	21. 0	·02381			
14. 1	45. 0		***	23. 1	·02323			
14. 16	46. 30	11. 12	·1027	23. 32	·02297			
14. 40	45. 50	11. 21	·1030					
15. 24	41. 20	11. 40	·1027					
16. 14	39. 40	12. 2	·1031					
16. 46	42. 10	12. 16	·1030					
17. 3	41. 40	14. 7	·1033					
17. 14	42. 0	14. 18	·1032					
17. 31	41. 20	14. 37	·1038					
18. 35	42. 30	15. 13	·1035					
18. 58	44. 0	15. 20	·1036					
19. 15	42. 30	15. 45	·1034					
19. 45	42. 45	15. 50	·1036					
20. 5	42. 0	16. 37	·1030					
20. 15	40. 30	17. 40	·1040					
20. 59	41. 50	19. 17	·1036					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.26		Mar.26						
h m	° ′ ″	h m		h m		h m	°	°
21. 22	21. 41. 30	20. 20	·1034					
22. 9	45. 10	21. 0	·1028					
22. 44	46. 0	22. 1	·1026					
23. 59	54. 0		***					
		23. 11	·1027					
		23. 22	·1031					
		23. 43	·1027					
		23. 59	·1031					
Mar.27		Mar.27		Mar.27		Mar.27		
0. 0	21. 54. 10	0. 0	·1017	0. 0	·02557	1. 40	47 ·0	48 ·0
1. 33	59. 30	0. 4	·1017	0. 44	·02208	3. 40	52 ·0	54 ·0
1. 40	58. 50	0. 13	·1023	1. 25	·02122	9. 40	55 ·0	56 ·0
2. 15	59. 40	0. 20	·1016	1. 53	·02041	21. 40	42 ·0	45 ·0
2. 29	58. 30	0. 32	·1015	2. 20	·01963			
3. 22	58. 35	0. 46	·1012	3. 1	·01826			
3. 45	57. 50	1. 0	·1012	3. 16	·01850			
3. 52	58. 5	1. 25	·1015	3. 35	·01861			
4. 2	57. 50	1. 44	·1013	4. 8	·01918			
4. 15	58. 5	2. 26	·1009	4. 30	·01920			
4. 28	57. 15	3. 0	·1012	4. 51	·01946			
4. 32	56. 5	3. 13	·1011	5. 40	·01977			
4. 43	55. 30	3. 26	·1001	5. 55	·01977			
4. 46	55. 50	3. 33	·1002	6. 31	·02067			
5. 43	52. 0	3. 50	·1008	6. 45	·02058			
5. 51	53. 10	4. 0	·1001	7. 22	·02043			
6. 14	45. 40	4. 6	·1002	8. 13	·02126			
6. 17	44. 30	4. 34	·0993	9. 20	·02182			
6. 30	40. 5	4. 41	·0998	11. 0	·02307			
6. 45	45. 40	4. 50	·0998	12. 44	·02481			
6. 50	46. 0	5. 7	·0988	14. 20	·02706			
6. 58	47. 10	5. 14	·0997		·02662			
7. 0	47. 0	5. 17	·0991	15. 17	·02624			
7. 13	48. 30	5. 28	·0987	17. 55	·02580			
7. 32	40. 30	5. 32	·0988	19. 28	·02560			
7. 46	41. 0	5. 40	·0991	20. 52	·02521			
8. 0	44. 30	5. 49	·0987	23. 15	·02502			
8. 3	44. 15	5. 59	·0975					
8. 15	45. 30	6. 9	·0979					
8. 18	45. 0	6. 12	·0978					
8. 30	46. 50	6. 16	·0979					
	(†)	6. 20	·0983					
9. 40	41. 52*	6. 24	·0982					
	(†)	6. 42	·0994					
10. 2	47. 45	6. 45	·0990					
10. 14	46. 5	7. 2	·0994					
10. 28	46. 15	7. 20	·0976					
10. 45	45. 10	7. 26	·0975					
10. 48	45. 50	7. 32	·0981					
11. 0	45. 0	7. 47	·0985					
11. 27	47. 5	7. 59	·0978					
11. 43	48. 0	8. 13	·0979					
12. 0	47. 55	8. 19	·0983					
12. 6	48. 0	8. 28	·0980					
12. 29	49. 55	8. 47	·0982					
12. 58	49. 10	9. 15	·0997					
13. 14	48. 30	9. 24	·0996					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
Mar. 27		Mar. 27						
h m	° ′ ″	h m		h m		h m	°	°
14. 13	21. 48. 40	9. 39	·0996					
14. 22	48. 55	9. 56	·1001					
14. 28	48. 45	10. 12	·1001					
14. 47	49. 0	10. 32	·1005					
14. 57	48. 35	10. 49	·1002					
15. 17	48. 55	11. 8	·1005					
15. 27	48. 10	11. 58	·1006					
16. 0	48. 50	12. 42	·1013					
16. 17	48. 50	13. 26	·1011					
17. 47	49. 45	14. 14	·1011					
18. 0	50. 0	16. 48	·1022					
18. 45	48. 50	17. 25	·1021					
19. 26	48. 55	18. 46	·1027					
19. 31	47. 10	19. 12	·1030					
19. 48	48. 30	19. 17	·1029					
19. 54	46. 50	19. 22	·1030					
20. 0	46. 50	19. 28	·1028					
20. 12	47. 55	19. 46	·1028					
21. 10	48. 30	19. 50	·1026					
21. 43	47. 30	20. 9	·1029					
21. 51	48. 25	20. 28	·1023					
23. 2	49. 0	21. 9	·1025					
23. 24	51. 25	23. 6	·1017					
23. 31	51. 10	23. 52	·1011					
		23. 59	·1012					
Mar. 28		Mar. 28		Mar. 28		Mar. 28		
	(†)	0. 0	·1013	0. 0	·02457	1. 40	46 ·0	47 ·0
2. 30	21. 49. 40	0. 7	·1014	1. 12	·02426	3. 40	48 ·0	50 ·0
3. 13	48. 25	1. 3	·1013	2. 7	·02365	9. 40	54 ·0	55 ·0
3. 25	47. 20	1. 28	·1012	2. 52	·02281	21. 40	45 ·0	46 ·0
5. 0	46. 5	2. 13	·1013	4. 12	·02083			
5. 43	45. 10	2. 16	·1011	6. 47	·01680			
7. 10	43. 30	3. 21	·1013	7. 34	·01708			
7. 58	44. 30	3. 37	·1011	14. 9	·01837			
8. 20	44. 10	3. 44	·1013	16. 3	·01996			
8. 36	44. 40	5. 11	·1011	17. 50	·02167			
8. 48	45. 50	5. 28	·1013	19. 5	·02317			
9. 20	44. 30	5. 34	·1008	20. 30	·02475			
11. 40	46. 0	5. 50	·1014	21. 31	{·02570			
12. 49	45. 20	5. 59	·1012		·02460}			
16. 15	44. 30	7. 8	·1016	22. 33	{·02517			
	(†)	7. 28	·1014		·02325}			
18. 26	45. 0	9. 16	·1017	23. 43	·02376			
18. 45	44. 40	9. 29	·1013					
20. 30	45. 30	9. 42	·1016					
21. 8	45. 30	10. 29	·1015					
	(†)	10. 34	·1017					
21. 40	45. 0*	11. 14	·1016					
		12. 41	·1020					
		13. 13	·1019					
		13. 50	·1022					
		16. 22	·1025					
		16. 28	·1024					
		17. 17	·1029					
		17. 26	·1027					
		17. 33	·1028					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 28 h m		h m		h m	°	°
		18. 17	·1031					
		18. 32	·1035					
		18. 50	·1031					
		19. 6	·1032					
		20. 30	·1021					
		20. 50	·1026					
		22. 11	·1014					
		23. 1	·1007					
		23. 28	·0999					
		23 40	·1000					
		23. 59	·0997					
Mar. 29		Mar. 29		Mar. 29		Mar. 29		
0. 6	21. 50. 0	0. 0	·0997	0. 6	·02365	1. 40	48 ·0	49 ·0
0. 50	52. 15	0. 30	·0994	0. 50	·02360	3. 40	52 ·0	54 ·0
0. 59	53. 10	0. 54	·0995	1. 53	·02281	9. 40	51 ·0	52 ·0
1. 5	52. 10	1. 5	·0990	2. 30	·02198	23. 23	40 ·0	42 ·0
2. 43	51. 20	1. 21	·0990	2. 43	·02163			
4. 14	46. 0	2. 20	·0994	3. 22	·02027			
5. 1	44. 30	3. 41	·1002	4. 0	·01871			
5. 47	41. 50	4. 20	·1004	4. 24	·01821			
6. 45	42. 50	4. 56	·1003	4. 37	·01803			
7. 32	44. 0	5. 13	·1005	5. 17	{·01785			
	***	5. 40	·0999		·01858}			
8. 22	45. 30	6. 23	·0999	7. 5	·01901			
	***	6. 26	·1009	10. 27	·02056			
11. 25	45. 0	6. 40	·1008	11. 10	·02125			
	***	7. 7	·1013	15. 17	{·02598			
13. 0:	45. 0	8. 0	·1015		·02534}			
16. 29	45. 5	8. 48	·1017	18. 30	·02500			
17. 6	45. 50	9. 4	·1017	20. 18	·02461			
20. 43	43. 0	9. 52	·1020	21. 38	·02424			
21. 32	41. 45	11. 52	·1024	23. 4	·02430			
22. 59	46. 30	13. 37	·1027					
23. 7	46. 35	15. 6	·1032					
23. 59	50. 30	15. 51	·1033					
		17. 7	·1038					
		18. 34	·1040					
		19. 4	·1043					
		19. 37	·1044					
		20. 4	·1041					
		20. 53	·1040					
			***					
		23. 0	·1025					
		23. 52	·1025					
Mar. 30		Mar. 30		Mar. 30		Mar. 30		
0. 0	21. 50. 15	0. 0	·1023	0. 0	·02441	11. 10	49 ·0	50 ·0
1. 0	53. 5	0. 45	·1024	0. 50	·02440	21. 40	41 ·0	43 ·0
1. 6	52. 50	2. 20	·1026	1. 14	·02421			
1. 17	53. 35	2. 37	·1014	1. 28	·02417			
1. 25	54. 15	2. 46	·1015	2. 15	·02365			
1. 36	54. 30	2. 58	·1019	3. 16	·02263			
1. 40	54. 0	3. 16	·1013	4. 43	·01982			
1. 45	54. 5		***	6. 7	·01703			
1. 47	54. 50	3. 50	·1016	6. 29	·01717			
1. 59	53. 55	4. 0	·1019	7. 48	·01715			
2. 13	54. 55	4. 19	·1011	8. 45	·01744			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 30		Mar. 30		Mar. 30				
h m	° ′ ″	h m		h m		h m	°	°
2. 32	21. 53. 50	4. 36	·1019	10. 13	·01761			
			***					
2. 41	54. 10			10. 40	·01785			
3. 11	53. 45	5. 3	·1012	11. 59	·01816			
			***					
3. 17	52. 30			14. 32	·02036			
3. 31	52. 10	5. 47	·1021	14. 56	·02081			
3. 44	51. 20	5. 58	·1026	15. 27	·02115			
4. 6	50. 35	6. 7	·1025	18. 18	·02538			
4. 15	50. 45	6. 49	·1027		·02456			
4. 37	49. 30	7. 4	·1022	20. 14	·02458			
4. 43	47. 30	7. 20	·1023	23. 32	·02411			
4. 51	46. 20	7. 26	·1027					
5. 7	46. 20	8. 0	·1022					
5. 13	45. 50	8. 21	·1018					
5. 30	46. 55	8. 40	·1025					
5. 43	46. 45	9. 24	·1027					
5. 47	46. 5	9. 35	·1028					
6. 40	44. 40	9. 45	·1025					
7. 0	45. 10	9. 52	·1027					
8. 11	43. 0	10. 36	·1023					
8. 29	41. 45	10. 54	·1040					
8. 45	43. 0	11. 12	·1065					
9. 32	44. 15	11. 32	·1046					
10. 40	44. 0	11. 45	·1040					
10. 58	41. 30	12. 20	·1030					
11. 10	36. 30	12. 51	·1024					
11. 17	41. 0	13. 7	·1019					
	***	13. 30	·1025					
11. 30	40. 20	13. 45	·1021					
	***	13. 50	·1021					
11. 47	42. 5	13. 57	·1016					
	***	14. 9	·1025					
12. 8	40. 50	14. 23	·1014					
	***	14. 51	·1015					
12. 28	42. 10	15. 7	·1028					
	***	15. 25	·1032					
13. 2	41. 40	15. 42	·1029					
	***	16. 37	·1034					
13. 46	44. 10	17. 21	·1034					
	***	17. 47	·1037					
14. 3	41. 50	18. 7	·1036					
	***	19. 52	·1037					
14. 16	42. 15	21. 10	·1034					
15. 4	52. 10	21. 30	·1030					
	***	23. 45	·1018					
15. 18	50. 30							
	***							
16. 4	45. 5							
	***							
17. 13	43. 50							
17. 33	44. 20							
18. 46	43. 15							
20. 36	43. 30							
20. 44	42. 30							
21. 30	43. 0							
22. 25	46. 15							
	***							
23. 59	49. 55							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 50. 0	0. 0	·1018	0. 46	·02358	1. 40	44 ·0	49 ·0
0. 43	49. 30	1. 3	·1019	1. 12	·02303	3. 40	54 ·0	55 ·0
0. 47	49. 10	1. 50	·1014	2. 22	·02076	9. 40	58 ·5	59 ·3
1. 11	50. 0	2. 2	·1008	3. 15	·01830	21. 40	47 ·0	49 ·0
1. 50	48. 55	2. 20	·1007	3. 26	·01865			
3. 4	45. 40	2. 36	·1013	4. 5	·01898			
3. 30	45. 10	4. 12	·1011	5. 55	·01921			
3. 57	44. 0	4. 27	·1008	6. 20	·01936			
5. 32	42. 40	4. 54	·1008	7. 18	·01935			
5. 57	43. 0	5. 5	·1006	7. 48	·01962			
7. 10	42. 20	5. 24	·1007	8. 13	·01970			
7. 29	40. 40	5. 43	·1005	8. 22	·01998			
7. 47	42. 20	5. 52	·0997	9. 28	·02019			
8. 10	38. 20	6. 22	·0991	11. 0	·02077			
8. 18	37. 30	6. 51	·1001	13. 12	·02504			
8. 30	39. 0	7. 24	·0995	16. 21	·02672			
9. 23	43. 50	7. 45	·1000		·02608			
10. 13	45. 10	8. 26	·1001	18. 26	·02610			
11. 28	45. 55	8. 47	·1002	19. 8	·02618			
12. 30	45. 20	9. 28	·1001	20. 18	·02614			
13. 53.	45. 0	9. 41	·1004	20. 44	·02600			
14. 32	44. 20	9. 53	·1004	21. 12	·02613			
15. 25	44. 45	10. 5	·1007	23. 17	·02558			
16. 0	44. 55	10. 30	·1005	23. 55	·02521			
16. 55	46. 50	12. 3	·1010					
17. 6	45. 15	13. 0	·1013					
17. 13	46. 5	13. 50	·1017					
17. 26	44. 25	13. 55	·1015					
18. 30	42. 50	15. 30	·1019					
	***	16. 7	·1021					
19. 50	43. 0	16. 32	·1020					
19. 58	43. 50	17. 6	·1027					
	***		***					
20. 32	43. 10	18. 4	·1031					
21. 0	44. 0	19. 0	·1027					
21. 19	42. 30	19. 21	·1029					
22. 16	44. 30	20. 13	·1021					
23. 12	47. 30	20. 17	·1017					
23. 54	48 10	20. 37	·1013					
23. 59	49. 20	21. 8	·1013					
		21. 33	·1018					
		23. 41	·1002					
		23. 59	·1006					
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
0. 0	21. 49. 25	0. 0	·1006	0. 15	·02562	1. 40	53 ·0	55 ·0
0. 21	51. 30	0. 18	·1003	1. 30	·02457	3. 40	57 ·5	59 ·0
0. 44	51. 20	0. 40	·1001	3. 29	·02019	9. 40	62 ·5	62 ·0
1. 50	52. 30	2. 0	·0998		·02058	21. 40	53 ·5	55 ·0
2. 14	52. 0	2. 16	·1000	7. 6	·02037			
2. 18	52. 10	2. 34	·0996	10. 41	·02121			
2. 45	51. 20	2. 48	·1002	11. 8	·02116			
2. 51	52. 0	3. 16	·0996	14. 28	·02362			
2. 59	50. 40	3. 36	·0999	18. 17	·02768			
4. 17	48. 35	4. 6	·0996	18. 29	·02777			
4. 20	48. 55	4. 35	·1002		·02721			
4. 55	48. 10	5. 0	·0997	21. 40	·02733			
5. 15	48. 20	5. 11	·0998		·02240			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 1		Apr. 1		Apr. 1		h m	°	°
h m	° ′ ″	h m		h m				
5. 24	21. 47. 50	5. 21	·0993	23. 49	·02223			
6. 0	46. 0	5. 39	·0992					
	***	5. 53	·0994					
6. 55	46. 0	6. 11	·0987					
	***	6. 34	·0989					
8. 43	43. 30	6. 37	·0985					
	***	7. 12	·0990					
9. 2	45. 20	7. 30	·0995					
	***	7. 50	·0990					
9. 57	44. 40	8. 30	·0991					
10. 25	38. 35	8. 46	·0996					
	***	9. 14	·0999					
11. 0	42. 55	10. 6	·0998					
	***	10. 22	·1026					
11. 33	41. 30	10. 35	·1037					
	***	11. 23	·1000					
11. 58	38. 40	11. 48	·1005					
	***	12. 30	·0998					
12. 29	42. 30	13. 56	·0998					
	***	15. 10	·1003					
13. 33	45. 30	17. 3	·1009					
	***	19. 20	·1013					
15. 52	46. 30	20. 19	·1005					
16. 45	47. 10	21. 24	·1005					
17. 27	46. 15	22. 41	·0999					
18. 0	47. 30	22. 56	·0995					
18. 28	45. 10	23. 48	·0997					
18. 33	45. 15	23. 59	·0996					
19. 31	42. 25							
19. 48	44. 30							
20. 51	44. 35							
21. 30	45. 30							
21. 44:	44. 40							
22. 58	47. 30							
23. 14	49. 30							
23. 59	51. 40							
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	21. 51. 45	0. 0	·0996	0. 0	·02190	1. 40	59 ·5	60 ·5
0. 13	52. 30	1. 42	·1001	0. 31	·02147	3. 40	60 ·0	62 ·0
	***	2. 0	·0996	2. 41	{·01963	9. 40	60 ·0	61 ·0
1. 15	52. 10	2. 20	·0999		{·02070	21. 40	53 ·0	55 ·0
1. 50	53. 0	4. 12	·1000	3. 20	·02020			
2. 30	52. 30	4. 37	·1000	7. 24	·01956			
4. 43	48. 15	4. 45	·1002	8. 15	·01989			
5. 14	47. 10	4. 52	·1000	10. 16	·01990			
6. 48	46. 35	6. 4	·1001	11. 32	·02037			
9. 12	46. 30	6. 7	·0998	12. 52	·02086			
10. 17	47. 15	6. 20	·1002	17. 25	·02537			
11. 3	46. 30	6. 25	·1000	18. 24	·02577			
11. 17	43. 40	7. 25	·1002	19. 18	·02570			
11. 50	45. 5	7. 43	·1000	22. 59	·02390			
12. 46	44. 5	8. 5	·1004	23. 37	·02340			
14. 13	47. 0	8. 18	·1001					
	***	8. 39	·1004					
14. 44	46. 0	10. 11	·1007					
	***	10. 21	·1003					
15. 25	46. 10	10. 30	·1007					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 2		Apr. 2		h m		h m	°	°
h m	° ′ ″	h m						
15. 46	21. 46. 55	11. 6	·1009					
	***	11. 39	·1036					
16. 13	45. 0	11. 51	·1026					
17. 13	46. 30	12. 8	·1020					
17. 31	45. 35	12. 30	·1009					
	(†)	12. 43	·1006					
19. 36	45. 30	12. 50	·1009					
	***	13. 26	·1003					
21. 10	47. 30	14. 11	·1007					
21. 48	50. 0	14. 24	·1009					
	***	14. 50	·1011					
23. 8	47. 15	15. 53	·1015					
	***	16. 26	·1015					
23. 59	48. 30	16. 45	·1012					
		17. 20	·1017					
		17. 33	·1021					
		17. 40	·1017					
		17. 54	·1019					
		18. 10	·1020					
		18. 20	·1021					
		19. 22	·1021					
		19. 26	·1019					
		19. 34	·1021					
		19. 55	·1017					
		20. 15:	·1016					
		20. 35	·1009					
		20. 45	·1011					
		21. 11	·1008					
		21. 34	·1007					
		21. 50	·1009					
		22. 12	·1009					
		22. 27	·1013					
		22. 43	·1011					
		22. 49	·1014					
		23. 6	·1011					
		23. 59	·1011					
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
0. 0	21. 48. 30	0. 0	·1011	0. 0	·02300	1. 40	56 ·0	57 ·0
0. 47	51. 50	0. 24	·1014	3. 35	·02137	3. 40	57 ·0	58 ·0
2. 23	54. 20	0. 33	·1013	3. 58	·02110	9. 40	56 ·0	58 ·0
3. 30	50. 0	1. 0	·1014	6. 46	·02010	21. 40	53 ·0	55 ·0
3. 35	50. 40		***	8. 2	·02006			
3. 44	50. 0	2. 7	·1021	10. 36	·01953			
4. 16	50. 0	2. 19	·1015	16. 22	·01750			
	***	2. 24	·1011	19. 33	·01736			
4. 42	49. 0	2. 55	·1019	21. 43	{·01687			
	***	3. 35	·1019		{·01780			
7. 43	45. 0	3. 40	·1026	23. 6	·01786			
	***		***	23. 55	·01810			
9. 16	45. 0	5. 57	·1020					
	***	6. 8	·1027					
9. 46	43. 0	6. 20	·1025					
	***	6. 35	·1019					
10. 1	44. 25	6. 44	·1019					
	***	6. 52	·1024					
10. 47	45. 5	7. 40	·1022					
	***	7. 52	·1018					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 3		Apr. 3						
h m	° ′ ″	h m		h m		h m	°	°
11. 12	21. 44. 20	8. 15	·1021					
	***	8. 53	·1022					
11. 29.	42. 45	9. 7	·1028					
	***	9. 22	·1024					
11. 55	45. 0	9. 56	·1030					
	***	10. 12	·1027					
12. 24	46. 5	11. 2	·1031					
	***	11. 5	·1035					
12. 44	45. 25	11. 17	·1031					
13. 20	45. 5	11. 43	·1037					
	***	12. 10	·1033					
13. 50	46. 0	13. 52	·1032					
	***	14. 10	·1034					
14. 36	45. 55	15. 15	·1033					
	***	15. 23	·1035					
15. 2	47. 5	17. 0	·1032					
	***	18. 15	·1033					
15. 24	47. 0	19. 50	·1030					
	***	20. 40	·1024					
15. 31	46. 0	21. 0	·1018					
	***	21. 36	·1013					
15. 43	46. 5	22. 7	·1013					
	***	22. 45	·1007					
16. 10	45. 30	23. 1	·1003					
	***		***					
16. 19	45. 15	23. 50	·1008					
	***							
16. 30	44. 20							
	***							
16. 39	46. 0							
	***							
16. 44	45. 0							
	***							
17. 59	45. 5							
	***							
20. 38	41. 40							
	***							
20. 46	42. 10							
	***							
21. 45	47. 15							
	***							
22. 14	47. 5							
	***							
23. 10	49. 30							
	***							
23. 59	53. 0							
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 1	21. 53. 40	0. 2	·1007	0. 6	·01802	1. 40	56 ·0	58 ·0
0. 34	54. 55	1. 5	·1007	1. 29	·01824	3. 40	58 ·0	60 ·0
1. 8	53. 25	1. 43	·1014	3. 18	·01910	9. 40	60 ·0	60 ·0
1. 30	53. 10	1. 52	·1020	5. 31	·01936	21. 40	49 ·0	51 ·0
1. 37	54. 35	2. 16	·1012	6. 12	·01957			
1. 45	54. 45	2. 36	·1013	6. 58	·01958			
2. 0	53. 25	2. 39	·1017	8. 44	·02066			
2. 34	53. 10	2. 47	·1013	9. 45	·02096			
2. 47	50. 10	2. 55	·1018	13. 16	·02406			
3. 0	51. 0	3. 1	·1009	16. 4	{·02740 ·02658			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 4		Apr. 4		Apr. 4				
h m	° ′ ″	h m		h m		h m	°	°
3. 22	21. 49. 10	3. 20	·1009	19. 0	·02640			
4. 7	47. 45	3. 25	·1013	20. 33	·02604			
4. 32	47. 30	3. 43	·1011	23. 7	·02620			
5. 1	46. 30	3. 52	·1013	23. 59	·02577			
5. 20	44. 30	4. 46	·1010					
	***	5. 8	·1011					
9. 0	45. 0	5. 25	·1007					
9. 40	45. 50	5. 35	·1008					
11. 45	45. 50	5. 52	·1005					
	(†)	6. 10	·1011					
14. 30	44. 5	6. 35	·1012					
15. 31	45. 40	6. 50	·1009					
15. 48	44. 30	7. 38	·1011					
16. 30	45. 0		***					
17. 43	46. 5	9. 6	·1016					
	(†)	9. 23	·1015					
20. 17	43. 0	9. 26	·1017					
20. 50	42. 30	9. 29	·1015					
	***	9. 52	·1015					
21. 59	42. 40	10. 47	·1017					
	***	11. 40	·1024					
23. 0	46. 50	11. 50	·1021					
23. 10	46. 50	12. 3	·1021					
23. 26	47. 55	12. 13	·1028					
23. 36	47. 55	12. 30	·1024					
23. 46	50. 35	12. 42	·1024					
23. 55	51. 0	12. 52	·1031					
		13. 30	·1022					
		15. 22	·1026					
		16. 10	·1031					
		16. 30	·1030					
		16. 44	·1027					
		17. 54	·1032					
		18. 25	·1036					
		19. 4	·1023					
		19. 36	·1026					
		19. 44	·1030					
		20. 23	·1033					
		21. 32	·1029					
		21. 54	·1024					
		23. 0	·1014					
		23. 4	·1014					
		23. 17	·1010					
		23. 59	·1011					
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
1. 40	21. 52. 37*	1. 40	·1008*	0. 2	·02554	1. 40	55 ·0	56 ·0
3. 40	50. 58*	3. 40	·1008*	0. 34	·02510	3. 40	56 ·0	
9. 40	37. 1*	9. 40	·1028*	2. 33	·02306	9. 40	56 ·0	58 ·0
22. 40	33. 29*	22. 40	·1015*	3. 9	·02186	22. 40	50 ·5	52 ·0
				4. 47	·01989			
				6. 45	·01910			
				10. 15	·01910			
				12. 30	·01992			
				14. 29	·02130			
				21. 3	{·02657 ·02618			
				22. 39	·02560			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 6		Apr. 6		Apr. 6		Apr. 6		
h m	° ′ ″	h m		h m		h m	°	°
10. 40	21. 37. 9*	10. 40	·1004*	0. 0	·02540	10. 40	52 ·5	53 ·0
21. 40	39. 57*	21. 40	·1018*	2. 12	·02527	21. 40	47 ·0	50 ·0
				4. 38	·02386			
				7. 42	·02257			
				9. 51	·02257			
				11. 41	·02248			
				13. 36	·02350			
				16. 15	·02591			
				16. 44	·02617			
				16. 47	·02561			
				18. 2	·02594			
				20. 46	·02590			
				23. 59	·02498			
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 43	21. 48. 5		(†)	0. 0	·02496	1. 40	51 ·5	54 ·0
1. 5	48. 45	0. 50	·1013	0. 38	·02478	3. 40	57 ·0	57 ·0
1. 15	49. 40	1. 20	·1017	1. 0	·02453	9. 40	58 ·0	59 ·0
1. 30	49. 0	1. 37	·1014	1. 45	·02377	21. 40	52 ·0	54 ·0
2. 28	49. 35	1. 49	·1015	4. 15	·01938			
3. 10:	48. 20		(†)	5. 19	·01987			
3. 47	46. 10	3. 58	·1019	7. 1	·01937			
5. 4	44. 0	5. 10	·1017	11. 18	·02038			
8. 48	43. 35	5. 40	·1017	18. 6	·02530			
9. 10	43. 10	6. 50:	·1014	19. 29	·02648			
9. 47	44. 15	8. 25	·1015	20. 30	·02690			
	***	9. 6	·1015	23. 36	·02615			
10. 15	43. 50	9. 33	·1016					
10. 22	44. 30	9. 45	·1018					
	***	9. 58	·1017					
10. 45	41. 50		(†)					
	***	23. 59	·1021					
11. 17	42. 0							
11. 30	41. 40							
12. 12	43. 50							
	***							
12. 45	43. 0							
	***							
13. 6	44. 4							
15. 10	44. 5							
15. 27	44. 30							
	***							
16. 14	43. 50							
17. 47	44. 0							
20. 0	40. 30							
	***							
20. 43	39. 0							
	***							
21. 44	39. 15							
22. 36	41. 40							
23. 25	44. 30							
23. 35	46. 30							
23. 59	46. 15							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 0	21. 46. 15	0. 0	·1021	0. 0	·02580	1. 40	55 ·5	56 ·0
0. 15	47. 40	0. 12	·1022	3. 12	·02437	3. 40	56 ·0	57 ·0
0. 29	47. 20	0. 23	·1016	7. 42	·02261	9. 40	57 ·0	57 ·0

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
h m	° ′ ″	h m		h m		h m	°	°
1. 33	21. 50. 45	0. 38	·1017	10. 0	·02211	21. 40	51 ·0	51 ·0
2. 36:	50. 25	0. 55	·1015	14. 8	·02397			
5. 55	45. 15	1. 31	·1022	17. 15	{·02710			
6. 2	44. 50	2. 20	·1021		·02658			
7. 9	44. 30	3. 0	·1024	18. 46	{·02657			
	***	3. 15	·1043		·02604			
11. 57	44. 0	4. 13	·1047	20. 47	·02628			
	***	5. 22	·1044	23. 48	·02490			
12. 45	44. 30	7. 45	·1050					
	***	8. 12	·1051					
19. 30	42. 35	8. 18	·1048					
	***	10. 0	·1050					
20. 29	38. 40	12. 37	·1049					
	***	12. 52	·1054					
21. 45	39. 30	13. 30	·1050					
22. 0	38. 5	14. 51	·1051					
22. 24	38. 20	15. 24	·1054					
	***	15. 55	·1052					
23. 59	46. 30	16. 21	·1055					
		18. 36	·1058					
		18. 56	·1063					
		19. 3	·1060					
		19. 21	·1060					
		19. 29	·1055					
		20. 33	·1053					
		22. 0	·1037					
		22. 46	·1026					
		22. 52	·1026					
		23. 59	·1025					
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 0	21. 46. 40	0. 0	·1025	0. 3	·02480	1. 40	52 ·5	54 ·0
0. 14	47. 15	0. 20	·1029	1. 43	·02398	3. 40	52 ·0	54 ·0
0. 27	48. 50	0. 38	·1030	3. 9	·02277	9. 40	56 ·0	57 ·0
0. 32	48. 30	0. 52	·1028	5. 38	·01898	21. 40	52 ·0	54 ·0
0. 45	50. 20	1. 4	·1031	6. 12	·01858			
1. 44:	51. 40	2. 0	·1029	8. 27	·01874			
2. 46:	50. 50	2. 38	·1033	9. 54	·01845			
6. 44	45. 0	2. 46	·1033	15. 29	·02153			
6. 58	45. 30	3. 14	·1035	18. 57	·02363			
7. 30	45. 25	3. 33	·1039	21. 13	·02420			
8. 47	44. 15	4. 23	·1040	21. 17	·02370			
9. 0	44. 45		***	22. 22	·02338			
10. 55	44. 50	5. 47	·1044	23. 53	·02218			
11. 46	44. 20	6. 20	·1040					
13. 4	45. 0	6. 48	·1038					
13. 43	45. 30	7. 10	·1042					
14. 0	43. 55	8. 55	·1042					
	***	9. 22	·1046					
14. 14	44. 55	9. 48	·1045					
	***	11. 52	·1046					
15. 45	43. 30	12. 0	·1044					
	***	13. 18	·1046					
19. 11	43. 30	13. 26	·1048					
20. 43	41. 0	15. 27	·1047					
22. 28	40. 50	17. 11	·1048					
23. 42	45. 30	17. 24	·1051					
		17. 28	·1048					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 9 h m		h m		h m	°	°
		17. 33	·1049					
		18. 5	·1051					
		19. 50	·1049					
		22. 5	·1037					
		22. 40	·1032					
		22. 45	·1031					
		23. 52	·1038					
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 18	21. 47. 20	0. 0	·1030	0. 14	·02188	1. 40	54 ·5	56 ·0
0. 28	47. 30	1. 54	·1033	3. 30	·01921	3. 40	58 ·0	58 ·0
0. 37	48. 40	2. 5	·1042		·01982	9. 40	59 ·5	60 ·5
1. 23	50. 40	2. 15	·1028	4. 34	·01952	21. 40	54 ·0	55 ·0
2. 5	52. 0	2. 45	·1026	6. 45	·01939			
2. 15	50. 30	3. 15	·1031	9. 48	·01913			
	***	4. 3	·1030	13. 33	·02058			
2. 47	50. 20	4. 8	·1027	15. 7	·02217			
5. 1	45. 50	5. 5	·1025	20. 0	·02777			
5. 28	45. 50	5. 11	·1027		·02648			
7. 28	45. 5	6. 16	·1030	23. 20	·02731			
7. 46	45. 30	6. 35	·1030	23. 56	·02681			
8. 46	44. 30	6. 54	·1026					
9. 1	43. 0	7. 40	·1031					
9. 23	43. 10	8. 7	·1029					
9. 34	44. 10	10. 6	·1032					
9. 48	44. 50	10. 37	·1031					
	***	11. 30	·1034					
10. 55	43. 50	11. 40	·1035					
	***	11. 51	·1032					
11. 15	44. 30	12. 4	·1034					
	***	13. 0	·1033					
11. 50	43. 0	13. 24	·1039					
	***	13. 45	·1034					
13. 24	44. 30	14. 50	·1034					
	***	15. 12	·1037					
13. 47	43. 30	15. 50	·1036					
	***	19. 18	·1044					
14. 26	43. 50	20. 0	·1042					
	***	20. 33	·1043					
15. 32	44. 0	21. 15	·1037					
	***	21. 32	·1034					
17. 13	44. 30	22. 15	·1024					
	***	23. 36	·1017					
20. 16	41. 0	23. 52	·1019					
	***	23. 59	·1018					
20. 59	40. 40							
21. 30	41. 30							
21. 54	40. 20							
22. 0	41. 0							
22. 18	40. 55							
23. 3	43. 15							
23. 54	46. 40							
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 16	21. 49. 20	0. 0	·1018	0. 22	·02770	1. 40	57 ·0	57 ·0
0. 40	49. 20	1. 36	·1024	2. 51	·02510	3. 40	60 ·0	60 ·0
1. 13	51. 20	2. 12	·1021	4. 56	·02220	9. 40	60 ·0	60 ·5
1. 29	51. 5	3. 15	·1024	6. 43	·02056	21. 40	57 ·0	57 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 11		Apr. 11		Apr. 11				
h m	° ′ ″	h m		h m		h m	°	°
1. 43	21. 51. 55	4. 4	·1026	10. 0	·02031			
3. 1	50. 40	4. 9	·1023	11. 46	·02078			
4. 5	48. 5	4. 24	·1028	13. 45	·02172			
4. 15	47. 30	4. 30	·1030	17. 19	·02407			
4. 52	46. 50	4. 51	·1024	17. 46	·02418			
5. 1	47. 10	4. 58	·1031		·02350			
6. 58	45. 40	5. 12	·1024	23. 20	·02370			
7. 31	46. 0	5. 52	·1031					
	***	6. 34	·1032					
8. 8	45. 30	7. 4	·1036					
	***	7. 23	·1034					
8. 28	46. 5	7. 50	·1035					
	***	8. 11	·1033					
9. 49	45. 25	8. 45	·1034					
10. 11	36. 25	8. 49	·1039					
	***	9. 15	·1032					
10. 17	35. 30	10. 7	·1035					
	***	10. 21	·1045					
10. 37	35. 35	10. 38	·1036					
	***	11. 7	·1038					
11. 1	38. 30	11. 16	·1033					
	***	11. 40	·1030					
11. 16	37. 5	11. 52	·1024					
11. 32	38. 30	12. 25	·1032					
11. 44	41. 0	12. 40	·1034					
12. 14	42. 55	12. 56	·1032					
	***	13. 33	·1036					
13. 0	42. 50	13. 45	·1034					
	***	13. 52	·1036					
13. 30	44. 15	14. 15	·1036					
	***	14. 29	·1037					
14. 45	44. 30	14. 52	·1036					
	***	15. 32	·1038					
15. 59	43. 30	16. 50	·1037					
	***	18. 54	·1039					
17. 0	44. 30	20. 43	·1033					
	***	21. 52	·1026					
20. 45	41. 30	22. 45	·1016					
21. 16	41. 55		***					
21. 25	41. 10	23. 30	·1016					
21. 38	42. 0	23. 59	·1017					
21. 57	41. 35							
22. 49	43. 25							
23. 59	47. 30							
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 0	21. 47. 35	0. 0	·1017	0. 0	·02230	1. 40	60 ·0	60 ·0
0. 55	49. 0	0. 50	·1023	2. 53	·01958	3. 40	62 ·0	63 ·0
1. 49	50. 0	2. 40	·1023		·02068	9. 40	63 ·0	63 ·0
3. 33	49. 30	2. 45	·1017	7. 30	·01980	22. 30	55 ·0	56 ·0
	***	4. 4	·1019	11. 14	·02120			
4. 59	46. 5		***	13. 41	·02323			
6. 36	45. 5	5. 8	·1017	17. 42	·02800			
8. 30	44. 30	5. 30	·1021		·02723			
9. 13	40. 50	6. 25	·1023	22. 57	·02754			
10. 31	44. 0	7. 33	·1020					
	***	8. 20	·1024					
11. 30	44. 5	8. 38	·1024					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12		Apr. 12						
h m	° ′ ″	h m		h m		h m	°	°
11. 36	21. 42. 55	8. 45	·1026					
	***	10. 16	·1027					
13. 30	43. 15	11. 15	·1030					
	***	11. 33	·1033					
13. 55	41. 25	11. 40	·1035					
	***	12. 20	·1029					
14. 50	42. 10	13. 15	·1036					
	***	13. 27	·1035					
16. 0	40. 0	13. 39	·1036					
	***	14. 15	·1030					
16. 32	42. 35	15. 10	·1033					
	***	16. 6	·1033					
17. 45	40. 0	16. 45	·1037					
	***	17. 38	·1034					
19. 0	43. 25	18. 0	·1033					
	***	18. 25	·1032					
20. 25	43. 50	18. 44:	·1037					
	***	20. 22	·1036					
20. 47	42. 0	20. 28	·1034					
	***	21. 0	·1029					
21. 30	44. 30	21. 54	·1026					
	***	22. 50	·1018					
22. 50	44. 30		(†)					
	(†)							
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
8. 5	21. 44. 8*		(†)	0. 0	·02712	8. 5	63 ·0	65 ·0
	(†)	11. 30	·1021	1. 45	·02607	21. 40	56 ·0	58 ·0
10. 45	44. 15	12. 40	·1022	3. 15	·02440			
12. 55:	44. 30	14. 9	·1026	5. 6	·02043			
	***	15. 4	·1028		·02106			
18. 0	43. 30	16. 20	·1031	8. 28	·02035			
	***	18. 4	·1033	8. 44	·02066			
20. 15	41. 30	18. 16	·1031	12. 13	·02160			
21. 54	42. 30	18. 23:	·1034	14. 30	·02337			
22. 55	45. 0	20. 35	·1029	18. 15	·02796			
23. 27	46. 0	21. 15	·1025		·02720			
23. 51	47. 30	22. 10	·1019	20. 15	·02731			
		23. 59	·1019	21. 36	·02713			
				22. 58	·02723			
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 30	21. 50. 10	0. 31	·1020	0. 24	·02560	1. 40	57 ·0	58 ·0
1. 13	49. 55	1. 4	·1024	2. 44	·02513	3. 40	59 ·8	60 ·3
2. 5	49. 30	2. 21	·1025	7. 0	·02138	9. 40	60 ·0	60 ·5
3. 13	47. 55	2. 50	·1028	9. 7	·02110	21. 40	53 ·5	55 ·0
3. 22	48. 0	3. 2	·1025	11. 0	·02193			
3. 39	47. 0	4. 0	·1029	14. 24	·02448			
4. 17	45. 30	4. 30	·1027	16. 5	·02619			
4. 55	45. 10	5. 10	·1028	17. 57	·02678			
5. 57	45. 30	5. 30	·1029		·02598			
6. 14	44. 55	5. 50	·1030	19. 36	·02650			
	***	6. 24	·1028	23. 59	·02612			
8. 7	44. 30	10. 20	·1039					
	***	10. 52	·1037					
9. 9	45. 5	11. 13	·1042					
	***	11. 24	·1047					
10. 28	45. 20	11. 40	·1040					
	***							

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Apr. 14		Apr. 14						
h m	° ′ ″	h m		h m		h m	°	°
12. 22	21. 44. 0	11. 56	·1037					
	***	12. 30	·1049					
12. 36	45. 30	13. 7	·1048					
	***	13. 20	·1043					
12. 51	44. 30	13. 51	·1042					
	***	14. 3	·1043					
13. 15	41. 0	14. 12	·1040					
	***	14. 38	·1040					
13. 46	43. 20	14. 51	·1043					
	***	15. 20	·1042					
14. 44	42. 45	16. 50	·1043					
	***	17. 26	·1045					
14. 59	44. 0	17. 32	·1044					
	***	18. 11	·1045					
15. 40	42. 55	18. 20	·1045					
	***	19. 7:	·1047					
16. 26	44. 0	19. 50	·1044					
	***	20. 10	·1044					
16. 49	43. 30	20. 36	·1034					
	***	20. 55	·1033					
17. 57	43. 55	21. 4	·1030					
	***	21. 52	·1024					
19. 47	41. 20	22. 9	·1027					
	***	22. 35	·1029					
20. 43	41. 30	22. 38	·1023					
	***	22. 50	·1029					
21. 28	44. 0	23. 10	·1030					
	***	23. 27	·1030					
22. 30	47. 5	23. 33	·1018					
22. 39	48. 45	23. 39	·1024					
22. 45	47. 30	23. 45	·1036					
22. 53	47. 50	23. 51	·1035					
22. 59	47. 30							
23. 28	49. 0							
23. 34	48. 5							
23. 41	48. 5							
23. 47	49. 30							
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 3	21. 49. 0	0. 5	·1035	0. 2	·02610	1. 40	55 ·8	56 ·1
0. 17	48. 20	0. 17	·1033	1. 30	·02558	3. 40	58 ·0	58 ·0
0. 30	49. 30		***	2. 55	·02447	9. 40	59 ·0	59 ·0
0. 50	49. 20	1. 5	·1038	5. 43	·02021	21. 40	50 ·0	51 ·5
1. 14	51. 20	1. 13	·1045	7. 41	·01900			
1. 17	53. 10	1. 16	·1045	11. 0	·02030			
1. 32	52. 15	1. 30	·1035	17. 43	·02643			
2. 43	50. 10	1. 42	·1034		·02618			
3. 28	48. 5	2. 11	·1034	20. 42	·02621			
5. 20	48. 0	2. 19	·1033	23. 59	·02610			
5. 29	48. 10	2. 51	·1036					
5. 41	48. 15	3. 0	·1034					
6. 47	47. 20	3. 10	·1036					
6. 50	47. 0	3. 30	·1032					
7. 6	48. 55	3. 38	·1035					
7. 27	44. 30	3. 50	·1034					
7. 32	44. 30	4. 6	·1039					
7. 58	43. 0	4. 17	·1035					
8. 30	43. 0	4. 33	·1037					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 15		Apr. 15						
h m	° ′ ″	h m		h m		h m	°	°
8. 40	21. 43. 20	4. 46	·1033					
9. 8	42. 20	4. 56	·1035					
9. 27	29. 0	5. 3	·1031					
10. 13	39. 0	5. 15	·1031					
11. 0	42. 55	5. 16	·1029					
11. 47	43. 20	5. 24	·1028					
11. 57	43. 0	5. 26	·1031					
12. 12	43. 30	5. 36	·1033					
12. 43	42. 50	5. 39	·1028					
13. 29	43. 20	5. 48	·1029					
14. 13	42. 55	5. 50	·1030					
15. 1	43. 0	5. 54	·1023					
15. 14	43. 30	6. 2	·1024					
16. 55	43. 5	6. 5	·1029					
17. 17	43. 30	6. 6	·1029					
19. 14	43. 40	6. 9	·1026					
20. 16	42. 45	6. 17	·1025					
20. 40	42. 5	6. 25	·1029					
22. 10	41. 35	6. 34	·1030					
22. 19	42. 0	6. 39	·1027					
23. 59	47. 55	6. 52	·1027					
		7. 4	·1014					
		7. 30	·1024					
		7. 34	·1023					
		7. 45	·1028					
		8. 2	·1034					
		8. 22	·1033					
		8. 29	·1034					
		8. 37	·1027					
		8. 53	·1037					
		9. 2	·1035					
		9. 15	·1037					
		9. 32	·1041					
		9. 36	·1040					
		9. 48	·1036					
		10. 14	·1034					
		10. 48	·1035					
		10. 56	·1037					
		11. 5	·1037					
		11. 37	·1038					
		11. 42	·1039					
		11. 55	·1037					
		12. 40	·1040					
		13. 35	·1041					
		13. 52	·1042					
		14. 20	·1043					
		14. 24	·1045					
		15. 0	·1045					
		15. 54	·1048					
		16. 38	·1045					
		17. 45	·1045					
		18. 34	·1047					
		18. 56	·1050					
		19. 30	·1049					
		19. 52	·1046					
		20. 20	·1046					
		21. 5	·1042					
		21. 37	·1037					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 15 h m		h m		h m	°	°
		21. 48	·1037					
		22. 46	·1032					
		23. 33	·1034					
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
0. 0	21. 48. 0	0. 2	·1032	0. 0	·02613	1. 40	52 ·8	54 ·0
0. 15	48. 30	1. 53	·1030	1. 33	·02547	3. 40	56 ·0	57 ·5
1. 27	49. 55	3. 13	·1031	3. 6	·02398	9. 40	58 ·0	59 ·0
2. 7	49. 40	3. 57	·1030	4. 40	·02030	21. 40	49 ·0	51 ·0
3. 31	46. 50	4. 7	·1031	5. 36	·01870			
4. 35	44. 45	4. 41	·1028		·01904			
5. 25	44. 10	5. 31	·1028	7. 8	·01873			
	(†)	5. 43	·1027	8. 16	·01913			
12. 43	44. 20	5. 48	·1029	10. 39	·01960			
12. 50	44. 40	6. 41	·1028	12. 21	·02090			
14. 44	44. 0	6. 59	·1030	14. 24	·02270			
15. 21	44. 0	7. 23	·1031	16. 13	·02490			
15. 40	43. 50	8. 13	·1037	17. 30	·02658			
15. 55	44. 0	8. 24	·1036		·02594			
16. 52	43. 35	8. 33	·1038	18. 47	·02618			
19. 15	44. 10	8. 58	·1037	22. 10	·02597			
20. 0	43. 0	10. 24	·1039	23. 48	·02597			
20. 10	42. 5	10. 41	·1041					
20. 29	41. 30	10. 48	·1043					
22. 13	43. 0	11. 23	·1042					
22. 59	44. 35	12. 47	·1047					
23. 23	46. 0	14. 39	·1045					
23. 59	47. 5	14. 51	·1048					
		15. 17	·1048					
		15. 44	·1049					
		15. 55	·1045					
		17. 9	·1049					
		17. 43	·1051					
		18. 15	·1050					
		18. 51	·1053					
		18. 58	·1057					
		19. 38	·1053					
		19. 45	·1053					
		19. 52	·1052					
		20. 17	·1051					
		21. 13	·1045					
		21. 19	·1045					
		22. 13	·1042					
		22. 40	·1037					
		22. 52	·1038					
		23. 1	·1037					
		23. 13	·1037					
		23. 32	·1036					
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	21. 47. 0	0. 0	·1035	1. 14	·02540	1. 40	52 ·0	53 ·5
	***	0. 29	·1036	2. 15	·02509	3. 40	56 ·0	57 ·0
1. 36	48. 0	0. 34	·1034	3. 50	·02340	9. 40	57 ·0	60 ·0
2. 32	47. 15	1. 27	·1035	3. 57	·02140	21. 40	52 ·0	52 ·0
3. 55	46. 10	2. 33	·1033	5. 7	·01878			
4. 57	44. 55	2. 42	·1031		·01912			
5. 13	45. 10	3. 32	·1031	6. 18	·01916			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 17		Apr. 17		Apr. 17				
h m	° ′ ″	h m		h m		h m	°	°
5. 27	21. 44. 55	3. 36	·1028	9. 31	·01887			
6. 36	44. 15	4. 4	·1031	10. 22	·01944			
	***	4. 14	·1030	15. 5	·02230			
7. 2	43. 10	4. 22	·1032	16. 58	·02430			
7. 13	43. 45	5. 0	·1031	20. 35	{·02672			
7. 19	43. 10	5. 23	·1033		{·02606			
7. 34	43. 35	5. 39	·1027	21. 36	{·02610			
8. 13	42. 30	6. 4	·1035		{·02373			
	***	6. 16	·1036	23. 56	·02440			
8. 45	43. 5	6. 30	·1032					
9. 2	43. 15	6. 36	·1033					
9. 17	43. 55	6. 45	·1032					
	***	6. 52	·1034					
10. 28	44. 50	7. 0	·1032					
	***	8. 5	·1034					
11. 2	44. 10	8. 41	·1037					
12. 15	44. 20	9. 27	·1039					
	***	10. 10	·1041					
14. 0	45. 0	11. 45	·1043					
15. 13	43. 45	12. 30	·1047					
15. 43	44. 0	12. 50	·1050					
16. 27	43. 25	13. 1	·1049					
16. 53	43. 40	13. 5	·1049					
17. 45	43. 40	13. 37	·1051					
	(†)	13. 50	·1049					
19. 10	42. 0	17. 23	·1054					
	***	17. 36	·1051					
19. 42	39. 30	18. 0	·1055					
19. 46	41. 15	18. 22	·1045					
	***		***					
20. 28	40. 0	19. 33	·1061					
21. 36	40. 40	19. 50	·1058					
21. 57	42. 40	20. 15	·1057					
22. 27	42. 30	20. 44	·1051					
22. 46	43. 10	21. 14	·1045					
23. 13	43. 0	21. 27	·1045					
23. 22	43. 55	21. 32	·1046					
23. 46	47. 5	22. 10	·1036					
		22. 25	·1034					
		22. 52	·1028					
		23. 0	·1024					
		23. 12	·1023					
		23. 17	·1021					
		23. 47	·1027					
		23. 58	·1020					
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
0. 24	21. 48. 0	0. 12	·1026	0. 10	·02440	1. 40	54 ·5	55 ·5
1. 17	51. 10	0. 20	·1025	1. 27	·02428	3. 40	57 ·0	59 ·0
1. 41:	51. 30	0. 40	·1033	2. 47	·02317	9. 40	62 ·5	64 ·0
3. 35	48. 0	1. 10	·1040	4. 30	·02010	21. 40	56 ·0	55 ·0
3. 50	48. 0	1. 22	·1037	5. 48	·02010			
5. 15	46. 10	1. 42	·1022	7. 3	·01978			
5. 31	46. 10	2. 6	·1027	7. 16	·02024			
7. 5	44. 10	2. 12	·1033	8. 38	·02100			
7. 43	43. 40	2. 30	·1035	10. 32	·02124			
7. 47	44. 0	2. 37	·1034	14. 30	·02353			
8. 6	43. 20	2. 52	·1037	16. 32	·02502			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 18		Apr. 18		Apr. 18				
h m	° ′ ″	h m		h m		h m	°	°
8. 16	21. 43. 40	3. 0	·1039	19. 10	{·02749			
8. 44	43. 35	3. 20	·1036		{·02676			
8. 48	42. 10	3. 45	·1037	23. 57	·02678			
9. 7	41. 30	3. 52	·1035					
9. 14	42. 0	4. 22	·1036					
10. 3	41. 35	4. 34	·1034					
10. 17	39. 30	4. 39	·1035					
10. 48	40. 15	4. 47	·1035					
11. 2	41. 25	5. 4	·1038					
11. 20	41. 0	5. 6	·1039					
12. 20	43. 50	5. 9	·1036					
12. 47	42. 40	5. 17	·1035					
14. 2	43. 30	5. 45	·1030					
15. 10	42. 50	6. 0	·1031					
15. 17	43. 10	6. 18	·1032					
16. 3	42. 10	6. 50	·1034					
16. 32	42. 15	6. 53	·1033					
16. 57	42. 30	7. 10	·1036					
17. 15	43. 5	7. 41	·1031					
	***	7. 57	·1034					
18. 57	42. 0	8. 53	·1032					
	***	9. 18	·1035					
19. 6	42. 10	9. 25	·1033					
	***	9. 57	·1035					
19. 29	41. 20	10. 15	·1033					
	***	10. 21	·1036					
20. 0	41. 30	10. 57	·1037					
	***	11. 16	·1036					
20. 37	40. 15	11. 36	·1047					
	***	12. 16	·1040					
22. 17:	41. 40	12. 28	·1044					
23. 7	44. 15	12. 52	·1045					
23. 59	47. 40	13. 20	·1042					
		14. 37	·1043					
		15. 7	·1045					
		15. 16	·1047					
		17. 13	·1048					
		17. 20	·1047					
		18. 6	·1048					
		18. 30	·1048					
		18. 47	·1050					
		20. 30	·1048					
		22. 5	·1035					
		22. 52	·1027					
		23. 30	·1009					
		23. 59	·1011					
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
0. 0	21. 47. 40	0. 0	·1011	0. 9	·02672	1. 40	56 ·0	57 ·0
1. 0	50. 50	0. 23	·1012	2. 16	·02641	3. 40	57 ·0	58 ·0
1. 30	51. 30	1. 6	·1017	4. 30	·02557	9. 40	57 ·0	59 ·0
2. 51	49. 10	1. 21	·1021	6. 30	·02406	23. 20	50 ·0	51 ·0
3. 6	48. 20	2. 15	·1028	7. 29	·02377			
4. 18	46. 30	2. 40	·1032	10. 2	·02386			
5. 28	45. 30	2. 45	·1031	11. 2	·02430			
6. 58	45. 55	2. 54	·1033	14. 42	{·02720			
7. 12	45. 10	3. 52	·1035		{·02663			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
h m	° ′ ″	h m		h m		h m	°	°
8. 30	21. 45. 10	4. 20	·1034	16. 30	·02660			
8. 45	43. 50	4. 36	·1036		·02593			
9. 0	44. 0	4. 45	·1033	17. 28	·02663			
9. 12	43. 40	4. 50	·1034	22. 48	·02630			
	***	5. 35	·1032	23. 43	·02628			
10. 17	42. 20	6. 47	·1036					
	***	7. 30	·1032					
10. 47	41. 30	7. 52	·1034					
	***	8. 39	·1032					
12. 18	43. 0	9. 51	·1032					
	***	10. 15	·1029					
12. 38	45. 30	10. 28	·1032					
	***	10. 45	·1029					
12. 48	46. 0	11. 34	·1031					
	***	12. 6	·1031					
13. 29	43. 40	12. 46	·1030					
	*	13. 33	·1045					
15. 10	43. 0	13. 50	·1042					
	***	15. 0	·1042					
15. 27	43. 20	15. 50	·1043					
	—	16. 20	·1045					
17. 24	42. 40	16. 52	·1045					
	***	18. 15	·1046					
18. 9	44. 20	18. 51	·1047					
	***	20. 17	·1044					
19. 25	41. 30	21. 23	·1037					
	***	22. 15	·1028					
20. 40	41. 15	23. 40	·1023					
21. 29	40. 30	23. 59	·1021					
21. 57	41. 55							
22. 7	41. 25							
22. 20	42. 20							
22. 40	42. 30							
23. 46	44. 45							
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 1	21. 45. 50	0. 0	·1021	0. 0	·02596	9. 32	·60	·62
0. 58	48. 50	1. 6	·1029	2. 10	·02547	21. 40	·50	·51
2. 5	51. 0	1. 37	·1032	3. 57	·02380			
2. 46	51. 15	2. 15	·1032	4. 34	·02262			
3. 45	49. 30	2. 21	·1030	6. 12	·01918			
4. 4	48. 10		***		·01980			
6. 15	44. 10	3. 23	·1031	8. 12	·01920			
9. 17	43. 30	3. 32	·1029	10. 21	·01949			
9. 30	43. 0	4. 0	·1028	13. 42	·02160			
	***	4. 20	·1029	17. 49	·02700			
13. 10	45. 15	4. 36	·1029		·02618			
	***	5. 7	·1027	22. 0	·02618			
15. 50	44. 55	5. 21	·1025	23. 4	·02637			
	***	5. 47	·1028	23. 59	·02597			
17. 14	46. 20	6. 5	·1023					
	***	6. 43	·1026					
17. 58	44. 30	8. 5	·1025					
	***	9. 16	·1025					
18. 25	44. 30	9. 25	·1023					
	(†)	10. 13	·1022					
19. 15	41. 20	10. 24	·1020					
	***	11. 12	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 20		Apr. 20						
h m	° ′ ″	h m		h m		h m		
20. 22	21. 40. 40	12. 0	·1021					
21. 40	40. 55	12. 32	·1034					
22. 15	41. 40	13. 0	·1032					
23. 59	47. 30	13. 43	·1035					
		14. 34	·1034					
		15. 45	·1036					
		16. 5	·1037					
		16. 43	·1035					
		17. 14	·1039					
		19. 15	·1041					
		19. 34	·1044					
		20. 40	·1036					
		21. 26	·1020					
		22. 0	·1023					
		22. 51	·1026					
		22. 54	·1025					
		23. 21	·1027					
		23. 27	·1029					
		23. 36	·1027					
		23. 59	·1025					
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 0	21. 47. 30	0. 0	·1026	0. 54	·02557	1. 40	·55	·55
1. 18	51. 45	0. 47	·1023	1. 51	·02463	3. 40	·59	·60
2. 17	51. 45	1. 32	·1028	3. 15	·02220	9. 40	·64	·65
2. 26	51. 15	2. 7	·1029	4. 17	·01945	21. 40	·53	·55
2. 32	51. 40	2. 54	·1031		·01956			
3. 57	48. 55	3. 0	·1028	6. 58	·01970			
5. 30	47. 55	3. 25	·1031	11. 54	·02168			
6. 14	44. 30	4. 7	·1031	14. 25	·02406			
6. 28	44. 10	4. 30	·1027	17. 29	·02786			
7. 55	43. 40	4. 43	·1029		·02700			
8. 50	44. 10	5. 30	·1026	19. 10	·02710			
10. 8	44. 30	5. 37	·1028	23. 6	·02678			
10. 14	43. 30	5. 50	·1015		·02360			
10. 23	44. 55	6. 5	·1026	23. 56	·02370			
10. 47	43. 30	6. 15	·1025					
11. 14	43. 15	6. 22	·1026					
	***	6. 36	·1023					
12. 36	39. 0	6. 51	·1022					
	—	7. 20	·1026					
12. 57	35. 35	7. 34	·1025					
	—	7. 48	·1019					
13. 14	36. 5	8. 12	·1016					
	***	8. 30	·1020					
13. 25	34. 35	9. 0	·1018					
	***	10. 6	·1025					
13. 57	41. 20	10. 13	·1021					
14. 2	40. 15	10. 22	·1025					
14. 27	42. 0	10. 33	·1023					
14. 47	41. 0	11. 10	·1028					
15. 3	42. 10	11. 30	·1028					
	***	11. 39	·1027					
15. 39	43. 15	11. 53	·1035					
	***	12. 13	·1037					
17. 12	42. 5	12. 35	·1035					
19. 47	40. 5	13. 5	·1041					
20. 2	38. 50	13. 30	·1024					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Apr. 21 h m	° ′ ″
20. 22	21. 38. 50
20. 47	39. 55
20. 57	39. 30
22. 5	41. 5
22. 32	43. 0
23. 29	45. 20
23. 57	46. 0
Apr. 22	
0. 0	21. 46. 55
1. 0	49. 30
1. 52	51. 5
3. 48	50. 15
4. 2	50. 30
4. 32	49. 0
4. 49	49. 10
5. 12	48. 0
5. 55	47. 55
6. 12	47. 20
6. 38	45. 55
6. 58	45. 20
7. 42	46. 55
8. 7	44. 5
8. 31	45. 0
8. 43	43. 30
8. 50	43. 20
9. 12	38. 50
9. 50	39. 10
10. 21:	37. 30
11. 23	42. 40
12. 16	26. 0
12. 28	26. 45
12. 50	25. 50
13. 13	23. 50
13. 58	30. 35
14. 15	30. 50
14. 27	32. 30
15. 1	16. 25
	***
15. 16	18. 0
	***
15. 32	23. 0
	***
15. 47	22. 25
16. 10	25. 45
17. 0	39. 40
	***
17. 33	39. 0
	***
18. 47	41. 5
18. 52	39. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 21 h m	
13. 45	·1022
14. 0	·1026
14. 5	·1021
14. 22	·1025
14. 29	·1028
16. 30	·1031
18. 33	·1037
19. 7	·1039
19. 18	·1036
20. 21	·1036
20. 53	·1034
22. 0	·1020
23. 15	·1017
23. 58	·1019
Apr. 22	
0. 0	·1019
0. 22	·1022
0. 30	·1026
1. 12	·1030
2. 33	·1029
2. 47	·1029
2. 51	·1033
3. 14	·1030
3. 40	·1039
3. 53	·1034
3. 59	·1034
4. 5	·1031
4. 15	·1029
4. 30	·1035
4. 54	·1031
5. 6	·1036
5. 45	·1024
6. 33	·1022
6. 50	·1026
7. 5	·1026
7. 21	·1030
7. 36	·1028
7. 47	·1022
8. 23	·1028
8. 35	·1024
8. 53	·1027
9. 7	·1027
9. 16	·1031
9. 50	·1031
10. 48	·1020
11. 10	·1025
11. 21	·1037
11. 31	·1034
11. 48	·1043
11. 50	·1048
12. 11	·1045
12. 40	·1015
12. 54	·1015
13. 21	·1024
13. 36	·1017
13. 51	·1020
14. 4	·1030

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Apr. 22	
0. 0	·02357
1. 15	·02330
3. 50	·02050
5. 4	·01953
9. 15	·01967
12. 51	·02090
13. 26	·02147
13. 48	·02150
14. 25	·02214
15. 14	·02223
15. 45	·02264
17. 41	{·02630 ·02558
19. 13	·02597
23. 22	·02637
23. 45	·02614

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Apr. 22		
1. 40	57 ·0	57 ·5
3. 40	59 ·0	60 ·0
9. 40	61 ·0	61 ·0
21. 40	51 ·1	52 ·3

Göttingen Mean Solar Time.	Western Declination.
Apr. 22 h m	° ′ ″
19. 1	21. 40. 55
19. 8	39. 0
19. 34	42. 10
19. 43	41. 5
	***
21. 5	42. 50
21. 45	42. 30
22. 20	43. 50
23. 15	47. 0
23. 59	50. 0
Apr. 23	
0. 0	21. 50. 0
0. 6	49. 0
1. 25	50. 0
3. 16	48. 0
5. 0	46. 0
6. 50	45. 45
7. 27	43. 30
7. 40	40. 40
8. 31	44. 0
8. 51	41. 40
9. 49	44. 30
10. 14	43. 10
11. 19	44. 30
14. 31:	44. 5
14. 41	44. 30
15. 24	44. 40
16. 14	44. 0
16. 44	44. 30
17. 9	44. 10
17. 46	44. 35
19. 0	45. 20
20. 8	43. 10
20. 27	42. 0
21. 12	41. 30
23. 14	45. 20
23. 25	46. 30
23. 59	47. 55

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 22 h m	
14. 20	·1060
14. 36	·1066
14. 48	·1062
14. 55	·1050
15. 9	·1041
15. 22	·1051
15. 56	·1030
16. 10	·1026
16. 27	·1035
16. 54	·1031
17. 5	·1035
17. 26	·1034
18. 8	·1036
18. 37	·1030
19. 0	·1032
19. 6	·1027
19. 28	·1030
19. 39	·1022
20. 0	·1022
20. 15	·1019
21. 16	·1018
22. 21	·1015
23. 0	·1014
23. 59	·1007
Apr. 23	
0. 0	·1007
0. 38	·1010
0. 46	·1010
0. 52	·1012
2. 20	·1008
3. 6	·1009
3. 15	·1008
3. 30	·1010
3. 38	·1007
4. 15	·1008
4. 21	·1005
4. 30	·1009
4. 53	·1007
5. 6	·1008
5. 15	·1006
6. 15	·1007
6. 40	·1014
6. 55	·1009
7. 7	·1005
7. 12	·1008
7. 26	·1006
7. 50	·1014
8. 27	·1013
8. 35	·1011
9. 0	·1016
9. 15	·1013
9. 45	·1014
9. 51	·1017
10. 30	·1016
10. 40	·1018
11. 5	·1017
12. 0	·1019

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Apr. 23	
0. 0	·02607
0. 44	·02590
2. 31	·02372
4. 24	·01983
5. 20	·02016
7. 25	·01990
8. 17	·02018
11. 18	·02010
14. 15	·02148
17. 4	·02429
19. 15	·02650
20. 30	·02708
23. 28	·02696

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Apr. 23		
1. 40	56 ·0	57 ·0
3. 40	60 ·0	61 ·0
9. 40	62 ·5	63 ·0
21. 40	54 ·5	56 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 23 h m		h m		h m		
		12. 9	·1018					
		13. 5	·1020					
		14. 41	·1021					
		14. 50	·1022					
		15. 0	·1022					
		15. 20	·1023					
		15. 23	·1025					
		16. 2	·1027					
		18. 29	·1030					
		18. 37	·1025					
		18. 46	·1027					
		18. 54	·1024					
		19. 34	·1031					
		21. 27	·1022					
		22. 6	·1020					
		23. 5	·1010					
		23. 38	·1012					
		23. 59	·1013					
Apr. 24		Apr. 24		Apr. 24		Apr. 24		
0. 0	21. 47. 55	0. 0	·1013	0. 0	·02678	1. 40	57 ·0	57 ·6
0. 33	48. 20	1. 20	·1012	0. 30	·02683	3. 40	61 ·3	62 ·0
1. 45	48. 30	2. 30	·1007	1. 15	·02660	9. 40	64 ·5	65 ·0
2. 27	47. 30	2. 54	·1007	2. 32	·02559	21. 40	55 ·1	56 ·3
3. 17	46. 0	3. 27	·1021	3. 12	·02480			
4. 25	45. 20	4. 54	·1023	5. 39	·02012			
5. 17	43. 55	5. 21	·1024		·02037			
8. 13	42. 45	6. 7	·1027	7. 45	·01970			
8. 33	43. 10	7. 27	·1024	11. 22	·02097			
8. 58	42. 15	7. 46	·1027	14. 4	·02347			
9. 16	42. 45	8. 0	·1025	17. 17	·02781			
9. 31	42. 5	8. 23	·1028		·02720			
10. 32	43. 45	8. 40	·1024	22. 22	·02730			
10. 57	43. 35	9. 52	·1027	23. 36	·02632			
11. 25	44. 0	10. 0	·1029					
12. 31	43. 50	10. 7	·1028					
13. 18	44. 25	10. 30	·1033					
14. 25	43. 50	11. 30	·1034					
15. 45	43. 45	13. 0	·1036					
16. 16	43. 0	14. 33	·1040					
17. 15	43. 5	14. 45	·1038					
17. 43	42. 20	15. 8	·1041					
19. 43	41. 5	15. 45	·1040					
20. 30	41. 20	16. 30	·1043					
21. 0	40. 30	18. 18	·1043					
21. 40	41. 0	18. 50	·1045					
22. 1	40. 30	20. 0	·1047					
23. 40	44. 55	21. 25	·1042					
		23. 35	·1024					
		23. 59	·1025					
Apr. 25		Apr. 25		Apr. 25		Apr. 25		
	(†)	0. 0	·1025	0. 0	·02587	1. 40	61 ·0	62 ·5
2. 45	21. 46. 30	0. 7	·1023	1. 0	·02450	3. 40	65 ·0	66 ·0
3. 19	46. 30	0. 37	·1020	2. 58	·02048	9. 40	66 ·0	68 ·0
3. 30	46. 40	1. 15	·1019		·02093	21. 40	57 ·4	59 ·0
	***			4. 48	·02017			
6. 43	43. 30	1. 52	·1016	6. 58	·01950			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 25		Apr. 25		Apr. 25				
h m	° ′ ″	h m		h m		h m		
0. 40	21. 42. 40	2. 45	·1018	8. 30	·01958			
				11. 22	·02076			
11. 10	44. 20	3. 22	·1012	14. 21	·02283			
				17. 4	·02558			
12. 20	42. 20	3. 49	·1012	18. 10	·02537			
		4. 22	·1020		·02646			
13. 15	42. 40	6. 10	·1014	23. 36	·02671			
		6. 52	·1021					
14. 25	41. 30	7. 10	·1025					
		8. 4	·1025					
15. 21	42. 25	8. 32	·1024					
	(†)	9. 20	·1028					
17. 46	42. 40	10. 15	·1026					
		10. 58	·1029					
20. 17	42. 0	11. 54	·1031					
		12. 23	·1034					
21. 28	40. 40	12. 37	·1036					
		12. 52	·1035					
22. 1	41. 20	15. 0	·1042					
		16. 15	·1047					
22. 15	42. 0	18. 53	·1052					
		20. 33	·1050					
23. 10	42. 45	21. 8	·1045					
		22. 50	·1038					
23. 59	44. 30	23. 12	·1035					
Apr. 26		Apr. 26		Apr. 26		Apr. 26		
0. 0	21. 44. 35	0. 15	·1030	0. 0	·02643	1. 40	59 ·0	60 ·0
1. 1	45. 55	1. 10	·1029	2. 27	·02610	3. 40	62 ·6	63 ·2
1. 40	45. 20	2. 0	·1024	3. 0	·02529	9. 40	66 ·0	66 ·0
2. 25	46. 0	3. 51	·1025	6. 3	·02013	23. 15	57 ·0	58 ·
3. 55	44. 50	3. 55	·1020	7. 8	·01908			
4. 17	45. 5	4. 8	·1024	7. 58	·01876			
4. 29	44. 55	5. 7	·1032	14. 2	·02033			
5. 13	45. 10	5. 16	·1038	16. 10	·02229			
5. 24	44. 30	5. 45	·1036	19. 46	·02691			
7. 16	44. 0	6. 4	·1040		·02658			
7. 50	43. 30	7. 45	·1038	22. 4	·02663			
8. 7	43. 40	9. 0	·1036	23. 17	·02640			
8. 18	43. 0	9. 55	·1038					
9. 30	43. 20	10. 22	·1036					
10. 23	42. 30	10. 36	·1037					
10. 41	43. 5	12. 26	·1038					
11. 40	42. 15	12. 37	·1036					
11. 47	42. 40	13. 0	·1040					
12. 40	43. 10	13. 44	·1040					
12. 47	42. 50	14. 3	·1038					
13. 16	43. 5	14. 21	·1043					
14. 13	42. 10	15. 30	·1045					
14. 18	42. 45	15. 58	·1041					
14. 47	41. 40	17. 8	·1043					
15. 18	42. 40	18. 22	·1048					
		19. 50	·1048					
15. 43	42. 30	21. 47	·1038					
		22. 20	·1036					
16. 10	43. 35	22. 30	·1034					
	***	23. 9	·1033					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 26		Apr. 26						
h m	° ′ ″	h m		h m		h m	°	°
16. 45	21. 42. 40	23. 18	·1029					
	***							
19. 30	40. 0							
20. 45	40. 30							
21. 48	41. 30							
23. 59	46. 25							
Apr. 27		Apr. 27		Apr. 27		Apr. 27		
0. 0	21. 46. 35	0. 6	·1029	0. 0	·02597	9. 25	54 ·5	55 ·0
	***	0. 13	·1031	2. 6	·02604	21. 40	49 ·0	51 ·0
1. 45	47. 40	0. 18	·1031	3. 49	·02638			
3. 14	47. 15	0. 25	·1033	9. 0	·02650			
	***	0. 35	·1030	16. 35	·02578			
5. 50	43. 10	1. 40	·1038	19. 6	·02546			
	***	1. 49	·1037	20. 6	·02560			
8. 22	43. 30	2. 2	·1042	23. 59	·02459			
	***	2. 22	·1043					
9. 7	44. 30	3. 9	·1048					
	***	3. 45	·1051					
11. 20	43. 40	4. 7	·1054					
	***	4. 21	·1053					
12. 45	42. 35	4. 30	·1054					
	***	4. 49	·1052					
13. 15	42. 55	4. 52	·1053					
	***	5. 4	·1053					
14. 0	42. 25	5. 14	·1055					
	***	6. 0	·1055					
16. 41	42. 50	6. 20	·1056					
	***	6. 28	·1055					
18. 35	42. 10	6. 37	·1056					
	***	7. 0	·1058					
20. 45	43. 15	7. 37	·1061					
20. 55	43. 0	9. 50	·1060					
21. 15	44. 0	13. 28	·1067					
22. 5	42. 55	13. 41	·1064					
22. 53	45. 0	13. 56	·1067					
23. 14	45. 15	15. 22	·1066					
23. 30	46. 20	15. 30	·1065					
		15. 50	·1066					
		17. 7	·1065					
		17. 55	·1066					
		18. 54	·1065					
		18. 58	·1066					
		19. 5	·1065					
		19. 15	·1066					
		19. 20	·1066					
		19. 30	·1068					
		20. 37	·1065					
		21. 22	·1060					
		22. 14	·1052					
		22. 42	·1046					
		23. 3	·1046					
		23. 15	·1045					
		23. 59	·1044					
Apr. 28		Apr. 28		Apr. 28.		Apr. 28		
0. 30	21. 46. 0	0. 0	·1044	0. 38	·02412	1. 40	54 ·0	55 ·0
0. 57	47. 0	1. 7	·1042	2. 47	·02110	3. 40	56 ·0	57 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 28		Apr. 28		Apr. 28		Apr. 28		
h m	° ′ ″	h m		h m		h m	°	°
1. 20	21. 46. 50	1. 22	·1039	4. 30	·01736	9. 40	57 ·6	58 ·8
2. 13	47. 35	1. 57	·1041		·01776	21. 40	50 ·0	51 ·0
3. 5	46. 30	2. 8	·1036	7. 54	·01765			
4. 25	45. 45	2. 46	·1038	8. 46	·01782			
4. 41	46. 0	3. 7	·1037	10. 43	·01770			
4. 55	45. 50	3. 58	·1039	14. 12	·01958			
5. 40	46. 0	4. 33	·1039	19. 29	·02570			
5. 46	45. 45	4. 47	·1044		·02506			
6. 17	46. 0	5. 4	·1037	21. 8	·02524			
6. 45	47. 20	5. 18	·1045	22. 10	·02510			
7. 14	46. 0	5. 30	·1042	23. 51	·02540			
7. 31	45. 55	5. 37	·1044					
7. 43	45. 0	5. 47	·1040					
7. 47	45. 0	5. 52	·1042					
8. 38	42. 30	6. 2	·1047					
8. 48	43. 30	6. 22	·1047					
8. 57	42. 55	6. 37	·1038					
9. 9	44. 30	6. 43	·1029					
9. 25	41. 30	7. 0	·1037					
10. 0	41. 0	7. 52	·1033					
11. 49	43. 35	8. 18	·1038					
12. 0	43. 20	8. 39	·1037					
12. 10	43. 30	8. 47	·1046					
12. 32	42. 30	8. 53	·1043					
14. 54	41. 30	9. 20	·1043					
	***	9. 31	·1039					
16. 24	42. 15	10. 45	·1040					
	***	11. 8	·1039					
18. 2	39. 50	11. 15	·1044					
	***	11. 30	·1043					
19. 43	41. 0	11. 37	·1045					
19. 54	40. 15	11. 46	·1044					
20. 25	40. 0	11. 52	·1046					
20. 33	40. 50	12. 15	·1044					
20. 54	40. 20	13. 0	·1046					
21. 17	41. 10	13. 18	·1047					
21. 49	41. 10	13. 24	·1046					
22. 0	40. 40	13. 58	·1049					
23. 14	42. 30	14. 7	·1048					
23. 20	43. 30	14. 22	·1051					
23. 30	43. 20	14. 27	·1049					
23. 59	44. 50	16. 35	·1051					
		18. 15	·1051					
		18. 40	·1050					
		18. 52	·1047					
		19. 22	·1052					
		21. 27	·1049					
		22. 19	·1043					
		22. 42	·1038					
		23. 0	·1037					
		23. 7	·1035					
		23. 12	·1035					
		23. 24	·1031					
		23. 52	·1031					
Apr. 29		Apr. 29		Apr. 29		Apr. 29		
0. 0	21. 44. 45	0. 37	·1035	0. 7	·02520	1. 40	52 ·1	53 ·4
0. 59	47. 15	1. 0	·1035	1. 34	·02492	3. 40	53 ·7	54 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 29		Apr. 29		Apr. 29		Apr. 29		
h m	° ′ ″	h m		h m		h m	°	°
1. 25	21. 46. 20	1. 7	·1037	4. 2	·02326	9. 40	55 ·0	56 ·0
2. 51	47. 0	1. 20	·1034	6. 53	·02053	21. 40	50 ·9	52 ·0
3. 10	46. 55	2. 45	·1038	9. 40	·01920			
3. 17	47. 25	2. 52	·1043	11. 27	·01885			
3. 34	46. 30	3. 13	·1041	13. 58	·01930			
	***	3. 21	·1045	16. 33	·02090			
4. 0	46. 15	3. 45	·1032	21. 52	·02554			
4. 31	45. 50	4. 7	·1037	22. 13	·02510			
5. 9	46. 15	4. 13	·1036	22. 46	·02330			
5. 17	46. 5	5. 6	·1046		·02307			
5. 39	45. 55	5. 17	·1051	23. 52	·02330			
6. 22	45. 45	5. 21	·1049					
6. 32	46. 15	5. 32	·1051					
7. 2	46. 5	5. 41	·1046					
7. 23	45. 0	6. 0	·1057					
7. 50	44. 30	6. 7	·1057					
7. 59	45. 5		***					
8. 18	44. 15	7. 15	·1053					
8. 43	44. 50	7. 37	·1058					
8. 55	43. 30	8. 5	·1055					
9. 13	44. 50	8. 27	·1057					
9. 38	43. 20	8. 39	·1054					
10. 17	42. 35	8. 50	·1062					
	***	9. 12	·1054					
11. 10	44. 0	9. 31	·1056					
11. 17	42. 45	9. 41	·1061					
	***	9. 56	·1059					
11. 40	42. 20	10. 3	·1054					
12. 5	40. 20	10. 10	·1056					
12. 25	37. 35	10. 30	·1055					
	***	11. 0	·1062					
12. 58	39. 55	11. 7	·1065					
13. 45	40. 30	11. 12	·1062					
14. 0	42. 0	11. 16	·1063					
14. 15	40. 15	11. 25	·1058					
	***	11. 35	·1061					
14. 31	41. 15	12. 5	·1062					
	***	12. 30	·1066					
15. 45	41. 25	12. 37	·1057					
	***	12. 45	·1060					
16. 40	40. 15	13. 8	·1060					
16. 48	38. 40	13. 39	·1053					
	***	14. 7	·1057					
17. 2	39. 30	14. 16	·1054					
	***	15. 22	·1058					
17. 33	38. 15	15. 33	·1057					
	***	15. 57	·1060					
18. 20	40. 30	16. 17	·1057					
18. 32	38. 0	16. 33	·1058					
18. 35	42. 30	17. 16	·1053					
	***	17. 40	·1053					
19. 0	42. 20	17. 56	·1050					
	***	18. 15	·1043					
19. 35	43. 50	18. 31	·1047					
20. 8	43. 5	18. 50	·1046					
20. 16	41. 0	19. 35	·1053					
20. 28	43. 30	19. 39	·1052					
21. 0	45. 55	20. 5	·1054					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 29		Apr. 29				Apr. 30		
h m	° ′ ″	h m		h		h m	°	°
21. 25	21. 50. 0	20. 40	·1033			1. 40	53 ·0	54 ·0
21. 30	49. 30	21. 28	·1034			3. 40	55 ·0	56 ·0
21. 36	50. 15	21. 33	·1038			9. 40	56 ·0	57 ·0
21. 55	47. 20	21. 51	·1036			21. 40	49 ·0	50 ·0
22. 43	47. 20	22. 0	·1041					
22. 54	46. 20		***					
23. 14	46. 20	22. 30	·1035					
23. 47	47. 40		***					
		22. 55	·1030					
			***					
		23. 5	·1037					
			***					
		23. 59	·1036					
Apr. 30		Apr. 30		Apr. 30				
0. 28	21. 50. 0		(†)	0. 9	·02320			
0. 48	50. 35	1. 30	·1043	1. 53	·02260			
1. 38	48. 50	2. 15	·1040	3. 13	·02213			
1. 45	49. 30	2. 21	·1045	5. 29	·01829			
1. 56	47. 30	2. 40	·1038	6. 17	·01759			
2. 5	47. 5	2. 55	·1040	7. 46	·01843			
2. 20	48. 5		***	9. 3	·01722			
2. 45	47. 0	3. 15	·1025	14. 19	·01973			
2. 55	47. 20	3. 24	·1022	17. 20	·02358			
3. 2	46. 10	3. 35	·1032	18. 8	·02483			
	***	3. 57	·1027		·02361			
3. 15	47. 0	3. 59	·1030	19. 52	·02380			
3. 19	45. 55	3. 42	·1027	23. 59	·02263			
3. 37	46. 30	3. 45	·1035					
3. 44	45. 40	3. 50	·1028					
4. 25	45. 10	4. 0	·1028					
5. 13	45. 0	4. 6	·1031					
7. 4	44. 0	4. 9	·1025					
7. 33	42. 45	4. 12	·1035					
7. 40	43. 40	4. 22	·1034					
7. 53	42. 45	4. 40	·1039					
8. 0	43. 10	5. 25	·1042					
8. 15	42. 30	5. 36	·1045					
8. 45	44. 55	5. 50	·1044					
9. 3	44. 45	6. 6	·1051					
		6. 30	·1048					
10. 28	41. 50	6. 47	·1050					
10. 43	42. 15	6. 55	·1047					
11. 12	44. 0	7. 12	·1052					
	***	7. 50	·1038					
11. 28	44. 0	7. 58	·1043					
11. 34	42. 10	8. 15	·1041					
	***	9. 25	·1045					
12. 25	40. 25	9. 32	·1047					
	***	9. 50	·1046					
12. 51	46. 0	10. 5	·1048					
	***	11. 15	·1048					
13. 26	43. 30	11. 25	·1052					
	***	11. 31	·1051					
13. 30	44. 30	11. 37	·1056					
	***	12. 34	·1055					
14. 16	42. 0	12. 53	·1048					
	***	13. 30	·1047					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Apr. 30	
h m	° ′ ″
15. 15	21. 42. 40
	***
21. 27	41. 40
	***
22. 47	45. 15
	***
23. 59	48. 0
May 1	
0. 0	21. 48. 0
1. 49	50. 25
3. 12:	46. 50
5. 17	45. 15
7. 30	44. 0
8. 46	43. 45
	***
11. 43	45. 5
12. 12	44. 30
13. 12	45. 50
13. 35	45. 0
14. 15	45. 15
14. 36	47. 15
16. 20	43. 30
16. 44	40. 30
17. 13	41. 5
17. 29	43. 15
18. 47	43. 0
19. 59	42. 20
20. 16	41. 45
20. 45	41. 15
21. 17	41. 55
21. 25	41. 25
23. 59	46. 0
May 2	
0. 0	21. 46. 5
0. 40	48. 20
1. 38	48. 15
3. 55	44. 15
4. 54	43. 5
5. 47	42. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 30	
h m	
14. 7	·1038
14. 29	·1036
14. 40	·1050
15. 30	·1050
18. 21	·1056
20. 22	·1055
21. 30	·1051
22. 21	·1043
22. 34	·1038
22. 53	·1038
23. 16	·1055
23. 59	·1041
May 1	
	(†)
2. 51	·1027
3. 3	·1027
3. 51	·1041
4. 17	·1044
4. 20	·1038
5. 4	·1040
5. 21	·1043
5. 51	·1040
6. 45	·1050
7. 5	·1050
7. 20	·1047
7. 25	·1048
7. 36	·1045
7. 58	·1047
8. 30	·1045
9. 40	·1045
10. 30	·1046
11. 8	·1047
11. 16	·1049
11. 30	·1048
13. 6	·1051
13. 24	·1050
13. 40	·1052
14. 7	·1050
14. 21	·1051
14. 32	·1048
16. 15:	·1057
16. 40	·1053
17. 3	·1047
17. 39	·1049
19. 32	·1051
20. 37	·1045
22. 0	·1037
22. 34	·1037
23. 59	·1027
May 2	
0. 0	·1027
1. 15	·1032
1. 30	·1029
2. 6	·1031
2. 17	·1033
2. 22	·1031

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 1	
0. 20	·02249
0. 53	·02250
2. 12	·02210
5. 54	·01937
6. 47	·01877
8. 6	·01836
11. 48	·01902
14. 53	·02140
18. 13	·02440
18. 29	·02408
21. 44	·02447
23. 30	·02408
23. 59	·02376
May 2	
0. 42	·02326
3. 21	·01060
4. 12	·01803
4. 30	{·01768 / ·01805
7. 7	·01765

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
° ′	°	°
May 1		
1. 40	51 ·4	51 ·8
3. 40	54 ·0	54 ·0
9. 40	54 ·5	55 ·5
21. 40	49 ·1	49 ·6
May 2		
1. 40	54 ·0	54 ·0
3. 40	56 ·0	56 ·0
9. 40	57 ·0	57 ·0
21. 40	49 ·5	50 ·3

Göttingen Mean Solar Time.	Western Declination.
Mar. 2	
h m	° ′ ″
7. 46	21. 43. 20
8. 24	42. 10
8. 44	40. 40
9. 15	41. 15
9. 18	40. 45
9. 55	43. 5
10. 54	44. 40
11. 1	44. 0
12. 46	44. 20
13. 25	44. 55
13. 40	43. 55
14. 15	44. 50
15. 0	44. 0
15. 23	44. 30
	***
15. 44	46. 40
16. 45	44. 30
17. 41	44. 35
18. 0	43. 25
20. 31	41. 30
21. 35	42. 15
22. 57	44. 45
23. 18	46. 35
23. 59	47. 0
May 3	
0. 0	21. 47. 5
0. 45	47. 50
1. 5	48. 15
2. 17	47. 10
4. 17	44. 0
5. 0	44. 5
5. 41	43. 40
6. 25	42. 15
6. 36	42. 35
7. 27	43. 0
7. 50	42. 50
8. 10	43. 10
10. 30	43. 10
10. 51	42. 45
11. 54	43. 15
14. 6	43. 55
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 2	
h m	
2. 40	·1032
2. 50	·1029
3. 9	·1031
3. 33	·1028
3. 45	·1032
4. 22	·1033
4. 36	·1035
5. 31	·1034
5. 40	·1036
6. 2	·1035
6. 18	·1033
6. 45	·1035
7. 7	·1033
7. 50	·1037
8. 40	·1033
9. 3	·1040
10. 28	·1036
10. 47	·1041
11. 15	·1038
11. 55	·1038
12. 6	·1039
13. 9	·1043
13. 20	·1047
13. 45	·1046
14. 6	·1045
14. 48	·1046
15. 30	·1043
16. 22	·1046
17. 15	·1042
17. 40	·1047
18. 30	·1047
19. 13	·1049
19. 20	·1047
19. 25	·1048
21. 6	·1040
22. 15	·1035
22. 50	·1030
23. 42	·1032
23. 50	·1030
23. 59	·1031
May 3	
0. 0	·1031
0. 45	·1033
1. 50	·1040
2. 33	·1039
3. 0	·1044
3. 44	·1047
4. 0	·1045
4. 26	·1048
4. 51	·1039
5. 49	·1044
6. 20	·1037
6. 45	·1039
7. 20	·1037
7. 33	·1039
8. 30:	·1035
10. 26	·1043

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
May 2	
h m	
8. 12	·01758
9. 12	·01745
10. 28	·01730
12. 19	·01792
13. 44	·01840
15. 52	·02006
20. 14	·02519
20. 30	{·02534 / ·02467
23. 23	·02470
23. 59	·02486
May 3	
0. 55	·02485
2. 7	·02473
4. 18	·02220
7. 37	·01765
10. 24	·01732
11. 23	·01740
16. 11	·02044
18. 18	·02253
21. 45	·02510
21. 50	·02489
23. 30	·02510

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 2		
8. 12		
May 3		
1. 40	51 ·8	52 ·1
3. 40	54 ·7	55 ·0
9. 40	57 ·0	58 ·0
23. 20	50 ·0	50 ·3

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 3		May 3						
h m	° ′ ″	h m		h m		h m	°	°
15. 47	21. 43. 10	11. 50	·1044					
16. 25	42. 55	12. 20	·1043					
17. 0	43. 10	12. 32	·1046					
19. 17	41. 10	12. 36	·1045					
19. 33	40. 30	14. 45	·1049					
20. 14	40. 55	15. 22	·1047					
20. 30	40. 30	15. 58	·1050					
20. 43	41. 10	16. 30	·1048					
21. 15	40. 50	17. 35	·1049					
21. 32	40. 15	18. 15	·1047					
22. 17	41. 40	19. 22	·1049					
23. 59	48. 15	20. 5	·1043					
		22. 0	·1033					
		22. 51	·1026					
		23. 28	·1029					
		23. 59	·1035					
May 4		May 4		May 4		May 4		
0. 0	21. 48. 15	0. 0	·1035	0. 0	·02465	7. 54	56 ·0	56 ·0
0. 30	50. 0	0. 54	·1038	1. 19	·02490	21. 40	48 ·2	49 ·1
	***	1. 2	·1037	7. 9	·02120			
1. 57	50. 35	1. 7	·1040	7. 52	·02030			
2. 18	48. 50		***	8. 41	·01963			
2. 43	48. 50	1. 30	·1037	10. 14	·01872			
2. 58	48. 0	1. 36	·1033	11. 15	·01858			
3. 5	48. 5	1. 40	·1039	13. 32	·01957			
3. 36	47. 20	1. 45	·1037	15. 17	·02133			
4. 30	46. 50	2. 28	·1045	18. 4	·02514			
5. 8	45. 45	2. 41	·1044		·02486			
6. 59	44. 20	3. 0	·1045	20. 40	·02480			
7. 14	43. 55	3. 7	·1043	20. 44	·02440			
7. 25	44. 10	3. 47	·1045	23. 34	·02452			
7. 41	43. 0	4. 6	·1042					
8. 3	39. 30	4. 33	·1043					
8. 50	43. 0	4. 45	·1038					
9. 44	44. 0	5. 9	·1047					
10. 40	44. 30	5. 21	·1042					
14. 15	43. 50	5. 32	·1040					
15. 5	44. 20	5. 55	·1043					
15. 44	43. 45	6. 0	·1042					
16. 37	44. 30	6. 12	·1046					
17. 31	43. 5	6. 20	·1044					
17. 36	42. 30	6. 40	·1045					
17. 44	42. 55	7. 9	·1040					
17. 55	41. 50	7. 29	·1042					
18. 6	43. 0	7. 52	·1031					
18. 30	42. 50	8. 12	·1037					
19. 21	42. 45	8. 35	·1042					
19. 30	41. 30	8. 58	·1038					
19. 40	42. 0	9. 30	·1039					
19. 45	41. 30	9. 39	·1041					
19. 58	42. 15	11. 15	·1041					
20. 25	42. 0	11. 37	·1045					
20. 30	42. 55	11. 50	·1043					
20. 43	41. 30	12. 18	·1047					
20. 55	42. 0	12. 32	·1045					
	***	13. 3	·1048					
22. 18	42. 5	13. 20	·1052					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 4		May 4						
h m	° ′ ″	h m		h m		h m	°	°
22. 47	21. 43. 5	14. 40	·1051					
23. 5	44. 10	15. 10	·1053					
23. 17	44. 40	15. 45	·1051					
23. 30	45. 40	15. 55	·1050					
23. 41	45. 55	16. 45	·1053					
23. 59	47. 0	18. 19	·1056					
		19. 30	·1058					
		19. 50	·1053					
		20. 37	·1050					
		21. 15	·1046					
		21. 55	·1045					
			***					
		22. 45	·1033					
		23. 45	·1036					
May 5		May 5		May 5		May 5		
0. 0	21. 47. 10		(†)	1. 8	·02351	1. 40	52 ·8	53 ·0
0. 17	47. 30	1. 52	·1032	2. 20	·02196	3. 40	56 ·0	56 ·0
0. 32	48. 15	3. 7	·1036	4. 39	·01758	9. 40	58 ·2	58 ·0
0. 53	48. 20	3. 35	·1031	5. 43	·01791	21. 40	51 ·0	52 ·0
1. 0	50. 50	3. 50	·1035	7. 9	·01746			
1. 36	50. 50	4. 2	·1032	12. 5	·01743			
4. 0	47. 30	4. 12	·1033	15. 2	·01922			
4. 25	46. 50	4. 20	·1035	21. 5	·02502			
5. 4	46. 15	4. 30	·1035	22. 16	·02538			
5. 41	45. 10	4. 52	·1037	22. 26	·02508			
7. 32	42. 0	5. 30	·1035	23. 21	·02530			
8. 15	39. 40	5. 50	·1036	23. 59	·02508			
8. 44	42. 0	6. 2	·1034					
10. 0	43. 30	6. 12	·1037					
10. 49	44. 30	6. 50	·1037					
12. 13	43. 50	7. 27	·1041					
12. 37	44 20	7. 33	·1039					
13. 14	44. 10	7. 35	·1039					
13. 30	43. 35	8. 25	·1034					
14. 1	44. 0	8. 40	·1030					
14. 31	43. 15	9. 15	·1037					
15. 0	43. 35	10. 0	·1039					
15. 19	44. 30	10. 15	·1041					
15. 57	43. 50	10. 38	·1042					
17. 29	42. 15	11. 5	·1045					
17. 36	42. 45	11. 25	·1046					
17. 47	42. 5	11. 36	·1048					
17. 57	42. 20	11. 57	·1046					
18. 14	41. 15	12. 51	·1045					
18. 55	40. 40	13. 22	·1040					
19. 16	38. 50	14. 52	·1047					
20. 14	39. 30	15. 15	·1046					
20. 46	41. 45	15. 33	·1047					
21. 32	42. 40	15. 45	·1046					
22. 24	47. 0	16. 18	·1048					
22. 47	47. 30	17. 15	·1051					
22. 57	46. 30	17. 51	·1053					
23. 2	46. 40	18. 37	·1052					
	(†)	18. 45	·1050					
		19. 44	·1051					
		20. 0	·1044					
		20. 39	·1045					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
May 5	
21. 15	
21. 45	
22. 15	
22. 30	
22. 54	
May 6	
	(†)
2. 20	21. 48. 20
3. 25	47. 5
3. 55	46. 10
4. 8	46. 10
5. 34	44. 20
	(†)
8. 36	43. 30
10. 30	43. 40
11. 32	42. 30
12. 1	44. 15
	***
12. 20	42. 25
	***
12. 56	43. 25
	***
13. 26	42. 40
	***
14. 31	43. 10
	***
15. 21	42. 35
	***
15. 54	43. 15
	***
16. 44	42. 10
	***
17. 25	42. 30
19. 20	40. 15
22. 10	42. 50
22. 57	43. 15
	(†)
May 7	
1. 40	21. 48. 30*
3. 40	48. 20*
9. 40	44. 15*
21. 40	38. 58*
May 8	
0. 29	21. 47. 15
1. 6	48. 20
1. 30	48 30
1. 47	47. 55

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
May 5	
21. 15	·1040
21. 45	·1033
22. 15	·1036
22. 30	·1032
22. 54	·1031
	(†)
May 6	
1. 40	·1038*
3. 40	·1038*
9. 40	·1049*
21. 40	·1030*
May 7	
1. 40	·1048*
3. 40	·1044*
9. 40	·1035*
21. 40	·1031*
May 8	
0. 25	·1054
1. 0	·1057
1. 13	·1065
1. 29	·1066

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 6	
3. 5	(†) ·02221
4. 8	·02138
5. 44	·01903
6. 24	·01828
	(†)
9. 16	·01686
10. 37	·01832
13. 47	·01984
15. 15	·02102
20. 13	·02352
	·02504
23. 45	·02418
May 7	
0. 47	·02510
3. 20	·02498
5. 45	·02418
6. 9	·02410
6. 52	·02382
8. 15	·02398
10. 34	·02490
11. 46	·02490
17. 23	·02518
22. 11	·02458
23. 50	·02412
May 8	
0. 40	·02410
3. 15	·02278
6. 33	·01910
7. 39	·01844

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 6		
1. 40	56 ·0	55 ·0
3. 40	57 ·3	56 ·8
9. 40	58 ·0	56 ·8
21. 40	51 ·0	52 ·1
May 7		
1. 40	52 ·0	53 ·0
3. 40	54 ·0	55 ·0
9. 40	53 ·0	54 ·0
21. 40	50 ·0	51 ·0
May 8		
1. 40	52 ·1	52 ·4
3. 40	54 ·7	55 ·0
9. 40	56 ·0	56 ·3
21. 40	51 ·7	52 ·8

Göttingen Mean Solar Time.	Western Declination.
May 8	
h m	° ′ ″
2. 10	21. 48. 55
	***
2. 55	47. 50
	***
3. 44	48. 30
3. 54	48. 0
4. 13	48. 30
	***
6. 10	46. 25
8. 14	44. 10
10. 20	44. 30
13. 1	43. 50
13. 22	44. 15
14. 12	43. 15
15. 10	44. 5
16. 28	43. 50
17. 32	42. 35
19. 12	41. 30
	***
19. 30	41. 45
19. 34	42. 35
	***
19. 43	41. 5
20. 43	41. 0
21. 12	42. 15
	***
21. 32	41. 50
21. 37	42. 40
21. 42	42. 15
21. 45	43. 10
21. 49	42. 35
	***
23. 0	42. 30
	***
23. 52	46. 30
May 9	
0. 0	21. 46. 45
0. 24	48. 5
0. 51	49. 30
1. 27	49. 40
1. 43	50. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 8	
h m	
2. 18	·1066
2. 36	·1064
4. 15	·1066
5. 40	·1068
6. 0	·1067
7. 15	·1070
9. 0	·1064
9. 44	·1065
10. 19	·1067
10. 25	·1065
10. 36	·1067
10. 42	·1066
10. 50	·1067
11. 15	·1065
12. 11	·1066
12. 18	·1066
12. 24	·1063
12. 36	·1055
13. 4	·1058
13. 17	·1052
13. 28	·1054
13. 40	·1049
14. 30	·1054
14. 52	·1051
15. 7	·1060
15. 12	·1054
15. 17	·1056
15. 20	·1055
15. 23	·1057
15. 30	·1058
15. 36	·1062
15. 37	·1058
16. 7	·1055
16. 15	·1063
16. 36	·1051
16. 43	·1052
17. 0	·1052
17. 15	·1060
17. 30	·1061
17. 33	·1056
17. 42	·1058
17. 52	·1056
18. 4	·1063
18. 15	·1060
19. 12	·1065
19. 19	·1070
19. 50	·1066
20. 15	·1067
21. 52	·1058
23. 7	·1049
23. 59	·1044
May 9	
0. 0	·1044
0. 50	·1047
1. 39	·1045
1. 57	·1056
2. 45	·1052

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
May 8	
h m	
10. 49	·01770
12. 0	·01808
15. 0	·01929
16. 13	·02018
20. 45	·02273
23. 12	·02271
May 9	
0. 0	·02256
1. 28	·02210
3. 40	·01998
6. 35	·01738
6. 43	·01750

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 9		
1. 40	54 ·2	55 ·0
3. 40	57 ·0	58 ·3
9. 40	58 ·0	57 ·5
21. 40	54 ·0	55 ·0

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Greenwich Mean Solar Time.	Western Declination.
h. m.	° ′ ″
May 9	
2. 15	21. 50. 55
2. 36	50. 0
2. 45	50. 15
2. 55	49. 45
3. 25	49. 15
4. 20	48. 5
5. 10	47. 55
5. 15	46. 55
5. 21	47. 15
6. 0	46. 30
6. 14	46. 0
6. 35	46. 0
7. 36	44. 50
8. 29	44. 30
8. 39	45. 0
8. 46	44. 0
9. 36	44. 45
9. 54	43. 45
10. 2	44. 10
10. 54	42. 30
11. 9	44. 10
11. 32	42. 45
12. 17	42. 0
12. 44	42. 20
13. 18	43. 50
13. 32	42. 50
13. 47	42. 30
14. 25	43. 45
15. 2	44. 15
15. 46	44. 30
16. 5	43. 45
16. 28	44. 0
17. 25	43. 10
17. 32	43. 30
18. 25	42. 55
18. 32	43. 15
18. 42	42. 45
19. 34	41. 30
20. 24	41. 30
20. 45	41. 55
21. 14	41. 45
21. 45	42. 55
22. 53	43. 25
23. 32	45. 15
23. 44	45. 0
23. 59	45. 10
May 10	
0. 0	21. 45. 15
0. 20	46. 20
1. 31	48. 50
2. 3	47. 50
2. 25	48. 5
3. 30	46. 0
4. 5	45. 55
4. 40	46. 30
5. 0	45. 40
5. 43	45. 45

Greenwich Mean Solar Time.	Horizontal Force in Parts of the whole H. F. uncompensated for Temperature.
h. m.	
May 9	
3. 0	·1057
3. 28	·1055
3. 50	·1054
4. 11	·1053
4. 21	·1058
4. 28	·1059
4. 39	·1055
4. 46	·1058
5. 9	·1057
5. 18	·1061
5. 22	·1057
6. 7	·1058
6. 21	·1054
6. 42	·1060
7. 6	·1058
7. 16	·1061
8. 13	·1060
8. 30	·1057
9. 2	·1055
9. 40	·1059
10. 3	·1057
10. 14	·1053
12. 0	·1057
12. 16	·1056
12. 47	·1056
13. 15	·1058
13. 33	·1062
14. 10	·1061
14. 22	·1059
15. 30	·1059
16. 10	·1062
17. 52	·1061
18. 57	·1058
19. 45	·1053
20. 15	·1052
21. 21	·1050
22. 26	·1039
	***
23. 59	·1044
May 10	
0. 0	·1044
1. 27	·1057
2. 0	·1049
2. 37	·1051
	(†)
5. 37	·1044
6. 50	·1043
7. 37	·1045
9. 0	·1045
9. 52	·1048

Greenwich Mean Solar Time.	Vertical Force in Parts of the whole V. F. uncompensated for Temperature.
h. m.	
May 9	
12. 7	·01750
14. 0	·01837
17. 45	·02122
20. 41	·02290
21. 0	·02300
21. 10	·02278
23. 51	·02218
May 10	
0. 0	·02200
1. 19	·02077
2. 32	·01893
3. 56	·01922
4. 43	·01990
6. 3	·01938
7. 43	·01930
9. 22	·01890
11. 36	·01984
13. 55	·02193

Greenwich Mean Solar Time.	Readings of Declinometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h. m.		
May 9		
May 10		
1. 40	57 · 0	58 · 3
3. 40	62 · 0	63 · 0
9. 40	67 · 0	68 · 0
23. 40	59 · 0	60 · 5

Greenwich Mean Solar Time.	Western Declination.
h. m.	° ′ ″
May 10	
5. 47	21. 45. 10
6. 34	45. 0
7. 7	45. 0
7. 32	43. 45
7. 46	43. 30
8. 16	42. 55
8. 24	43. 10
9. 5	41. 0
9. 20	42. 0
9. 52	40. 30
10. 23	42. 20
12. 16	43. 0
13. 11	43. 30
13. 50	43. 0
14. 21	43. 0
14. 45	42. 30
15. 30	44. 30
15. 43	45. 15
15. 59	46. 55
16. 12	46. 55
16. 41	42. 50
16. 57	42. 15
17. 38	42. 15
18. 12	40. 30
18. 31	41. 0
18. 45	41. 40
19. 2	41. 50
19. 15	42. 10
20. 13	41. 20
20. 38	41. 30
21. 2	41. 10
21. 20	42. 5
21. 54	42. 10
22. 10	42. 45
22. 19	42. 30
22. 45	44. 0
23. 15	45. 10
23. 59	47. 10
May 11	
0. 0	21. 47. 15
0. 29	47. 40
2. 5	47. 30
2. 21	46. 50
3. 54	45. 15
4. 20	45. 10
5. 0	43. 30
5. 24	43. 35
7. 31	43. 5
8. 48	42. 25
9. 4	41. 10
9. 34	40. 5
9. 48	42. 15
10. 13	41. 50
11. 2	41. 15
11. 25	39. 30
11. 53	39. 55

Greenwich Mean Solar Time.	Horizontal Force in Parts of the whole H. F. uncompensated for Temperature.
h. m.	
May 10	
11. 22	·1043
12. 34	·1045
13. 4	·1047
13. 12	·1045
13. 50	·1045
14. 45	·1046
15. 12	·1040
15. 20	·1041
16. 6	·1044
16. 18	·1047
16. 27	·1051
16. 50	·1046
17. 20	·1047
17. 38	·1052
17. 58	·1049
19. 0	·1049
19. 22	·1047
19. 36	·1044
19. 53	·1044
20. 30	·1038
21. 0	·1045
21. 9	·1042
21. 21	·1043
21. 32	·1038
21. 39	·1040
21. 52	·1036
22. 14	·1039
22. 30	·1040
22. 42	·1039
23. 2	·1041
23. 54	·1042
May 11	
0. 0	·1042
0. 20	·1039
0. 40	·1045
1. 50	·1049
2. 4	·1047
2. 18	·1049
3. 0	·1047
4. 35	·1050
5. 47	·1048
6. 30	·1048
7. 13	·1049
7. 21	·1047
8. 25	·1046
8. 52	·1044
9. 24	·1048
10. 24	·1038
11. 37	·1037

Greenwich Mean Solar Time.	Vertical Force in Parts of the whole V. F. uncompensated for Temperature.
h. m.	
May 10	
17. 32	·02708
17. 55	·02630
19. 43	·02666
23. 42	·02614
May 11	
0. 0	·02604
0. 20	·02600
1. 48	·02493
3. 3	·02278
4. 33	·01878
	·01943
6. 55	·01960
9. 43	·01898
11. 21	·01960
12. 47	·02090
14. 22	·02290
17. 9	·02378
	·02078
18. 28	·02614
21. 41	·02633
23. 37	·02638

Greenwich Mean Solar Time.	Readings of Declinometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h. m.		
May 10		
May 11		
9. 25	59 · 5	59 · 5
21. 40	60 · 0	60 · 0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

May 7. The Photographic Registers of the Declination and the Horizontal Force failed.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 11		May 11						
h m	° ′ ″	h m		° ′		h m	°	°
11. 49	21. 41. 40	12. 0	·1036					
12. 4	42. 15	12. 52	·1043					
12. 24	41. 45	13. 21	·1043					
12. 40	41. 50	14. 0	·1040					
13. 0	41. 15	15. 25	·1044					
13. 44	40. 55	16. 0	·1040					
14. 19	42. 15	16. 37	·1050					
14. 40	42. 10	18. 33	·1049					
15. 55	43. 50	20. 0	·1047					
16. 18	43. 10	22. 0:	·1049					
17. 48	40. 10	22. 40	·1039					
19. 47	40. 0	23. 59	·1051					
21. 40	41. 50							
22. 12	42. 50							
22. 47	43. 30							
23. 11	44. 55							
23. 59	45. 55							
May 12		May 12		May 12		May 12		
0. 0	21. 45. 50	0. 0	·1052	0. 49	·02613	1. 40	60 ·0	60 ·0
1. 2	47. 55	1. 7	·1047	2. 13	·02650	3. 40	62 ·0	62 ·0
1. 40	47. 5	1. 59	·1039	3. 12	·02610	9. 40	64 ·0	64 ·5
1. 43	47. 20	2. 10	·1038	5. 30	·02348	21. 40	61 ·0	61 ·0
1. 54	46. 30	3. 30	·1046	7. 8	·02205			
2. 15	45. 50	5. 0	·1048	10. 13	·02070			
3. 5	45. 50	5. 12	·1054	11. 57	·02070			
4. 4	45. 0	5. 17	·1049	14. 56	·02210			
7. 12	44. 45	5. 28	·1047	18. 10	·02400			
7. 28	44. 20	5. 41	·1053	18. 22	·02372			
8. 2	43. 15	6. 22	·1054	19. 28	·02430			
8. 43	43. 55	6. 37	·1056	22. 32	·02470			
9. 0	44. 0	6. 46	·1047	23. 17	·02470			
9. 15	43. 35	7. 10	·1047					
9. 30	44. 5	7. 22	·1051					
11. 20	43. 30	7. 33	·1046					
12. 32	44. 15	8. 0	·1049					
14. 49	43. 35	8. 41	·1043					
15. 5	44. 10	9. 7	·1048					
16. 17	43. 35	10. 30	·1047					
16. 52	44. 15	14. 0	·1049					
17. 43	43. 0	16. 7	·1047					
18. 32	41. 55	17. 33	·1048					
18. 45	41. 20	19. 30	·1047					
19. 17	40. 20	21. 25	·1047					
20. 10	40. 40	22. 12	·1048					
21. 15	40. 40	22. 45	·1047					
23. 59	45. 55	23. 59	·1043					
May 13		May 13		May 13		May 13		
0. 0	21. 46. 0	0. 0	·1043	0. 0	·02440	1. 40	62 ·0	62 ·0
0. 40:	47. 10	0. 28	·1046	2. 6	·02440	3. 40	64 ·0	64 ·0
1. 24	47. 15	1. 18	·1045	4. 2	·02334	9. 40	65 ·0	65 ·0
2. 25	46. 30	1. 30	·1043	6. 59	·02059	21. 40	56 ·8	56 ·8
3. 25	45. 20	1. 59	·1045	8. 58	·01928			
3. 33	45. 20	2. 15	·1044	10. 52	·01980			
3. 51	44. 30	2. 37	·1046	16. 16	{·02660			
4. 46	43. 55	3. 3	·1045		{·02618			
6. 16	43. 15	3. 15	·1047	17. 41	·02622			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 13		May 13		May 13				
h m	° ′ ″	h m		h m		h m	°	°
7. 10	21. 44. 15	3. 40	·1045	17. 53	·02592			
8. 41	44. 0	3. 51	·1036	18. 32	·02623			
9. 35	44. 30	4. 10	·1044	22. 18	·02584			
9. 45	43. 55	4. 54	·1047	23. 30	·02570			
10. 56	44. 55		***					
11. 14	44. 30	6. 20	·1050					
11. 48	44. 45	6. 45	·1047					
12. 0	44. 20	7. 7	·1050					
12. 24	44. 45	7. 36	·1049					
12. 47	44. 0	7. 47	·1051					
13. 16	44. 10	8. 23	·1048					
14. 28	43. 0	8. 30	·1049					
14. 38	43. 45	9. 19	·1048					
15. 15	43. 30	9. 26	·1049					
	(†)	9. 40	·1048					
17. 40	41. 50	10. 15	·1051					
17. 55	41. 55	10. 23	·1053					
21. 46	41. 25	10. 29	·1051					
22. 15	42. 30	11. 15	·1053					
22. 36	42. 45	12. 30	·1055					
23. 34	46. 15	12. 52	·1058					
		13. 45	·1055					
		14. 7	·1058					
		14. 15	·1055					
		14. 37	·1057					
		16. 0	·1058					
		17. 5	·1061					
		17. 22	·1063					
		17. 27	·1061					
		17. 37	·1063					
		19. 5	·1063					
		19. 12	·1059					
		19. 33	·1059					
		20. 0	·1056					
		20. 40	·1057					
		22. 0	·1053					
		23. 6	·1047					
		23. 59	·1045					
May 14		May 14		May 14		May 14		
1. 40	21. 48. 45*	0. 0	·1045	0. 0	·02549	1. 40	59 ·0	59 ·0
3. 40	45. 32*	1. 30	·1052	1. 5	·02563	3. 40	59 ·0	60 ·0
9. 40	36. 19*	2. 4	·1056	2. 12	·02421	9. 40	59 ·0	59 ·0
21. 40	44. 34*	2. 18	·1062	5. 7	·02058	21. 40	55 ·0	55 ·0
		2. 30	·1061	5. 22	·02040			
		2. 39	·1063	5. 50	·01958			
		3. 0	·1057	6. 5	·01950			
		3. 24	·1058	6. 31	·01895			
		3. 45	·1055	7. 48	·01813			
		3. 52	·1056	9. 58	·01770			
		4. 12	·1049	10. 13	·01740			
		4. 47	·1046	11. 20	·01881			
		5. 30	·1053	12. 40	·01973			
		5. 40	·1051	13. 22	·02006			
		6. 4	·1051	14. 0	·02073			
		6. 11	·1055	15. 10	·02290			
		6. 37	·1054	16. 7	·02406			
		6. 49	·1049	17. 41	{·02558			
					{·02492			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 14 h m		May 14 h m		h m	°	°
		7. 6	·1059	19. 35	·02539			
		7. 14	·1078	20. 28	·02517			
		7. 20	·1072	21. 31	·02543			
		7. 26	·1068	22. 42	·02540			
		7. 36	·1072	23. 33	·02496			
		7. 51	·1058					
		7. 55	·1061					
		8. 2	·1056					
		8. 11	·1066					
		8. 17	·1057					
		8. 21	·1064					
		8. 27	·1059					
		8. 42	·1068					
		8. 51	·1083					
		9. 3	·1080					
		9. 6	·1087					
		9. 24	·1061					
		9. 33	·1076					
		9. 36	·1076					
		9. 54	·1111					
		10. 7	·1102					
		10. 18	·1071					
		10. 32	·1054					
		10. 55	·1044					
		11. 2	·1052					
		11. 11	·1044					
		11. 20	·1059					
		11. 22	·1061					
		11. 28	·1055					
		11. 39	·1049					
		11. 46	·1050					
		11. 50	·1049					
		12. 12	·1074					
		12. 27	·1069					
		12. 35	·1073					
		13. 3	·1064					
		13. 36	·1067					
		13. 40	·1063					
		14. 34	·1056					
		14. 48	·1058					
		15. 4	·1053					
		15. 28	·1057					
		15. 45	·1056					
		15. 52	·1060					
		16. 45	·1054					
		17. 18	·1060					
		17. 24	·1077					
		17. 32	·1073					
		17. 45	·1073					
		17. 56	·1061					
		18. 2	·1068					
		18. 6	·1067					
		18. 15	·1081					
		18. 21	·1079					
		18. 36	·1065					
		18. 38	·1065					
		18. 48	·1075					
		18. 52	·1072					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 14 h m		h m		h m	°	°
		18. 54	·1056					
		19. 11	·1054					
		20. 7	·1061					
		20. 20	·1055					
		20. 32	·1050					
		22. 2	·1047					
		23. 59	·1040					
May 15		May 15		May 15		May 15		
0. 24	21. 47. 20	0. 0	·1040	0. 15	·02460	1. 40	57·7	58·0
0. 45	47. 15	0. 30	·1041	1. 10	·02412	3. 40	59·0	59·0
1. 16	48. 25	0. 57	·1040	2. 13	·02282	9. 40	57·8	58·0
1. 30	47. 50	0. 39	·1057	5. 10	·01712	21. 40	55·0	55·0
1. 47	48. 50	1. 0	·1036		·01748			
2. 9	47. 50	1. 7	·1040	6. 6	·01694			
2. 13	48. 45	1. 38	·1039	7. 11	·01688			
2. 21	47. 30	1. 45	·1044	8. 6	·01727			
	***	1. 48	·1042	10. 21	·01950			
3. 13	44. 45	1. 55	·1045	10. 45	·02023			
3. 41	44. 55	2. 0	·1041	13. 30	·02280			
4. 6	43. 30	2. 7	·1045	15. 48	·02424			
4. 30	41. 20	2. 20	·1038	17. 23	·02460			
4. 54	41. 0	2. 45	·1035	20. 9	·02582			
5. 10	39. 30	2. 55	·1040	20. 24	·02536			
5. 15	39. 30	3. 0	·1037	22. 11	·02566			
5. 27	38. 50	3. 5	·1039	23. 6	·02549			
5. 50	38. 55	3. 11	·1028					
6. 12	37. 30	3. 19	·1033					
7. 29	39. 5	3. 23	·1028					
7. 48	38. 55	3. 27	·1032					
8. 33	39. 50	3. 37	·1026					
8. 49	38. 30	3. 50	·1033					
9. 13	39. 50	4. 10	·1032					
9. 42	40. 10	4. 22	·1027					
10. 10	42. 0	4. 33	·1037					
10. 24	41. 20	4. 40	·1041					
10. 45	42. 0	5. 0	·1038					
11. 17	38. 50	5. 8	·1046					
11. 32	39. 55	5. 22	·1049					
11. 52	38. 20	5. 30	·1046					
12. 12	39. 0	5. 49	·1053					
12. 19	39. 35	6. 6	·1052					
12. 28	39. 20	6. 17	·1059					
12. 33	38. 15	7. 37	·1058					
12. 43	38. 25	7. 45	·1056					
12. 52	38. 0	8. 5	·1058					
13. 4	39. 30	8. 20	·1072					
13. 8	39. 30	8. 37	·1072					
13. 13	40. 30	8. 49	·1064					
13. 31	41. 5	9. 12	·1058					
13. 42	40. 15	10. 57	·1060					
13. 11	39. 40	11. 20	·1066					
15. 32	40. 20	11. 30	·1068					
	(†)	12. 15	·1074					
21. 40	41. 6*	12. 30	·1069					
23. 29	47. 0	12. 47	·1059					
23. 59	47. 5	13. 21	·1062					
		13. 25	·1060					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

May 14. The Photographic Register of the Declination was lost through failure of the gaslight.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h. m.	° ′ ″	May 15 h. m.		h. m.		h. m.	°	°
		15. 52	·1060					
		16. 6	·1064					
		16. 17	·1063					
		17. 15	·1065					
		17. 28	·1066					
		17. 45	·1062					
		17. 55	·1062					
		19. 23	·1057					
		20. 15	·1063					
		21. 0	·1058					
		21. 18	·1054					
		21. 47	·1051					
		23. 52	·1057					
		23. 59	·1054					
May 16		May 16		May 16		May 16		
0. 0	21. 47. 15	0. 0	·1052	0. 0	·02507	1. 40	57·8	58·5
0. 14	47. 40	1. 10	·1059	0. 21	·02490	3. 40	59·0	59·0
1. 32	47. 55	2. 15	·1052	1. 53	·02512	9. 40	62·0	62·3
1. 58	48. 50	2. 37	·1059	4. 43	{·01740 ·01830}	21. 40	57·0	57·0
2. 17	47. 45	3. 3	·1061					
2. 45	48. 15	3. 16	·1057	8. 58	·01800			
2. 54	47. 40	3. 34	·1056	11. 2	·01748			
3. 6	48. 0	3. 50	·1050	13. 16	·01840			
3. 21	47. 30	3. 45	·1052	14. 57	·02121			
4. 0	47. 30	3. 51	·1049	19. 8	{·02638 ·02560}			
4. 15	47. 15	3. 53	·1052					
4. 28	46. 40	4. 30	·1040	23. 47	·02520			
4. 45	46. 20	4. 43	·1044					
4. 48	46. 55	4. 51	·1050					
4. 58	46. 10	5. 2	·1056					
5. 7	46. 15	5. 5	·1052					
5. 21	45. 50	5. 19	·1054					
5. 40	46. 0	5. 32	·1050					
5. 46	45. 30	6. 32	·1061					
6. 0	45. 55	6. 39	·1059					
6. 10	45. 15	7. 30	·1069					
6. 17	45. 20	7. 52	·1064					
6. 40	42. 30	8. 4	·1068					
7. 10	42. 0	8. 24	·1060					
	(†)	8. 52	·1072					
9. 40	38. 18*	9. 25	·1067					
21. 40	43. 48*	9. 55	·1067					
		10. 15	·1066					
		10. 45	·1063					
		11. 44	·1066					
		12. 5	·1068					
		12. 22	·1068					
		12. 40	·1072					
		12. 53	·1070					
		13. 14	·1071					
		13. 35	·1072					
		15. 0	·1072					
		17. 15	·1074					
		18. 37	·1071					
		19. 15	·1067					
May 16		May 16		May 16		May 16		
h. m.	° ′ ″	h. m.		h. m.		h. m.	°	°
		19. 35	·1068					
		19. 52	·1066					
		20. 3	·1068					
		20. 45	·1061					
		21. 42	·1062					
		22. 0	·1066					
		23. 7	·1072					
		23. 45	·1082					
May 17		May 17		May 17		May 17		
1. 40	21. 46. 59*	1. 40	·1072		(†)	1. 40	58·3	58·0
3. 40	47. 38*	3. 40	·1072	2. 42	·02564	3. 40	59·0	59·4
9. 40	44. 11*	9. 40	·1067	3. 1	·02568	9. 40	60·0	60·0
23. 35	44. 43*	23. 35	·1056		(†)	23. 35	62·0	63·0
				3. 37	·02532			
				5. 27	·02204			
				7. 45	·01990			
				9. 45	·[illegible]			
				10. 45	·02043			
				14. 40	{·02610 ·02550}			
				18. 30	·02570			
				20. 27	·02510			
				23. 0	·02438			
				23. 54	·02367			
May 18		May 18		May 18		May 18		
	(†)	9. 5	·1082	0. 28	·02341	9. 5	57·0	58·0
1. 43	21. 50. 0	21. 40	·1074	1. 27	·02270	21. 40	54·2	55·0
2. 18	48. 30			2. 52	·02097			
3. 5	40. 5			5. 47	{·01647 ·01680}			
3. 41	48. 5							
4. 49	47. 15			8. 11	·01637			
	(†)			11. 32	·01763			
11. 26	43. 50			16. 0	·02103			
14. 43	43. 50			20. 28	·02524			
15. 13	45. 55			21. 26	·02550			
15. 35	45. 45			23. 2	·02455			
15. 46	43. 25			23. 54	·02339			
16. 32	42. 20							
17. 15	42. 45							
19. 0	38. 20							
20. 21	38. 10							
21. 1	38. 25							
21. 36	40. 10							
22. 26	41. 45							
23. 24	45. 30							
23. 59	47. 0							
May 19		May 19		May 19		May 19		
0. 0	21. 47. 10		(†)	0. 46	·02212	1. 40	58·3	58·6
2. 2	45. 5	0. 24	·1072	1. 45	·02103	3. 40	61·0	61·4
2. 50	46. 0	0. 58	·1069	2. 13	·02011	9. 40	62·0	62·4
3. 15	45. 20	1. 5	·1052	3. 0	{·01740 ·01805}	21. 40	56·0	56·3
3. 30	46. 10	1. 20	·1056					
3. 54	45. 30	1. 45	·1052	3. 30	{·01795 ·01810}			
4. 16	45. 20	1. 51	·1047					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 19		May 19		May 19		h m	°	°
4. 43	21. 43. 0	2. 10	·1048	4. 21	·01812			
4. 43	42. 40	2. 40	·1052		·01870			
	(†)	3. 5	·1054	6. 16	·01857			
6. 2	39. 30	3. 10	·1056	7. 54	·01812			
6. 48	35. 30	3. 18	·1052	8. 23	·01800			
8. 18	39. 10	3. 27	·1050	9. 0	·01776			
9. 43	38. 40	3. 34	·1054	11. 2	·01822			
11. 17	45. 0	3. 44	·1055	12. 15	·01923			
	(†)	4. 0	·1056	13. 17	·02090			
18. 0	40. 20			15. 28	·02467			
19. 0	39. 30	4. 40	·1061	16. 0	·02533			
19. 41	39. 30	4. 46	·1065		·02572			
	(†)	4. 53	·1057	20. 17	·02570			
21. 40	39. 39*	5. 0	·1054	21. 10	·02596			
		5. 19	·1060	22. 9	·02550			
		5. 41	·1058	22. 27	·02546			
		5. 51	·1066	22. 53	·02513			
		6. 0	·1062	23. 59	·02370			
		6. 13	·1061					
		6. 22	·1065					
		6. 41	·1062					
		7. 9	·1077					
		8. 2	·1071					
		8. 24	·1074					
		8. 40	·1065					
		9. 3	·1071					
		9. 10	·1078					
		9. 45	·1068					
		10. 30	·1073					
		10. 57	·1070					
		11. 20	·1077					
		13. 3	·1080					
		14. 28	·1086					
		14. 50	·1082					
		15. 9	·1084					
		15. 30	·1083					
		17. 43	·1084					
		17. 51	·1085					
		17. 54	·1084					
		18. 10	·1083					
		18. 14	·1086					
			***					
		19. 12	·1082					
		19. 20	·1079					
		19. 38	·1082					
		20. 40	·1071					
		21. 50	·1065					
		22. 21	·1062					
		22. 27	·1063					
		22. 40	·1060					
		22. 54	·1060					
		23. 44	·1055					
May 20		May 20		May 20		May 20		
	(†)	0. 0	·1058	0. 11	·02332	1. 40	61 ·2	61 ·4
1. 31	21. 50. 30			1. 4	·02123	3. 40	65 ·0	65 ·3
3. 32	48. 20	1. 28	·1056	2. 21	·01810	10. 5	65 ·5	66 ·0
4. 13	40. 50	1. 51	·1045		·01860	21. 40	56 ·0	56 ·3

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 20		May 20		May 20		h m	°	°
5. 10	21. 45. 30	2. 9	·1048	3. 43	·01877			
6. 22	44. 0	2. 40	·1044	6. 30	·01890			
	(†)	2. 50	·1045	7. 13	·01870			
		3. 2	·1040	7. 24	·01878			
		3. 30	·1040	7. 55	·01883			
		3. 40	·1042	9. 0	·01814			
		3. 55	·1041	10. 36	·01790			
		4. 20	·1051	13. 42	·02480			
		4. 44	·1047	14. 43	·02700			
		4. 52	·1049		·02735			
		5. 0	·1040	17. 8	·02632			
		5. 21	·1044	19. 20	·02610			
		5. 33	·1045	21. 38	·02637			
		5. 50	·1042	22. 55	·02578			
		7. 5	·1047	23. 8	·02557			
		7. 22	·1050		·02522			
		7. 50	·1051	23. 53	·02458			
		8. 15	·1055					
		8. 30	·1050					
		8. 36	·1053					
		8. 54	·1050					
		9. 9	·1057					
		9. 20	·1062					
			***					
		10. 25	·1065					
		10. 53	·1068					
		12. 35	·1073					
		14. 0	·1081					
			***					
		15. 33	·1082					
			***					
		17. 18	·1085					
		18. 0	·1084					
		18. 15	·1087					
			***					
		19. 5	·1085					
			***					
		19. 26	·1089					
			***					
		20. 0	·1086					
			***					
		20. 50	·1084					
			***					
		22. 0	·1075					
		22. 50	·1073					
		23. 59	·1070					
May 21		May 21		May 21		May 21		
1. 40	21. 48. 52*	1. 40	·1054*	0. 6	·02430	1. 40	62 ·3	63 ·5
3. 40	50. 8*	3. 40	·1044*	1. 10	·02212	3. 40	66 ·0	66 ·6
9. 40	43. 7*	9. 40	·1042*	2. 36	·01843	9. 40	65 ·0	67 ·5
21. 40	43. 11*	21. 40	·1041*		·01903	21. 40	62 ·0	63 ·2
				4. 43	·01875			
				6. 14	·01830			
				7. 5	·01812			
				8. 20	·01867			
				11 30	·01897			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

May 17, 20, 21. The Photographic Register of the Declination failed.

May 17, 18, 21. The Photographic Register of the Horizontal Force failed.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		May 21 h m		h m	°	°
				14. 11	·02043			
				15. 38	·02163			
				17. 50	·02410			
				18. 55	·02496			
				20. 27	·02640			
				21. 38	·02728 / ·02204			
				23. 55	·02290			
May 22		May 22		May 22		May 22		
0. 28	21. 51. 30	0. 11	·1046	0. 19	·02300	1. 40	61 ·8	62 ·5
1. 0	51. 15	1. 15	·1049	1. 28	·02346	3. 40	62 ·1	63 ·0
1. 12	50. 50	1. 27	·1053	4. 54	·02449	9. 40	62 ·0	64 ·0
2. 12	49. 15	1. 40	·1052	6. 50	·02410	21. 40	57 ·8	58 ·0
4. 7	47. 30	3. 0	·1060	8. 16	·02318			
4. 47	46. 30	3. 9	·1040	9. 8	·02283			
6. 0	45. 30	3. 33	·1040	10. 22	·02310			
6. 55	44. 30	3. 52	·1037	11. 49	·02483			
7. 47	44. 15	4. 21	·1041	13. 0	·02510			
8. 32	43. 45	6. 0	·1038	13. 23	·02514			
9. 2	44. 45	6. 28	·1036	13. 35	·02486			
9. 56	44. 5	6. 35	·1038	13. 51	·02512			
10. 24	45. 10	7. 10	·1036	16. 24	·02568			
11. 0	45. 15	7. 15	·1035	19. 24	·02548			
11. 18	44. 50	7. 42	·1033	20. 44	·02573			
11. 57	45. 10	8. 10	·1035	22. 10	·02530			
12. 12	45. 30	9. 25	·1029	23. 43	·02360			
12. 20	45. 5	9. 50	·1026					
13. 17	44. 30	10. 51	·1034					
13. 28	44. 50	11. 46	·1035					
13. 41	44. 30	11. 59	·1045					
15. 13	44. 5	12. 30	·1042					
15. 21	43. 50	12. 56	·1045					
16. 0	44. 0	13. 40	·1046					
16. 15	42. 40	14. 30	·1040					
16. 48	43. 20	15. 50	·1050					
17. 48	42. 0	15. 52	·1046					
18. 29	44. 10	16. 6	·1049					
19. 30	47. 50	16. 13	·1047					
20. 1	41. 50	16. 50	·1053					
20. 18	42. 5	17. 30	·1047					
20. 30	41. 20	18. 16	·1053					
20. 55	43. 15	18. 30	·1049 ***					
21. 16	43. 20							
21. 35	44. 30	19. 5	·1051					
	(†)	19. 9	·1047 ***					
		19. 14	·1049 ***					
		19. 28	·1049 ***					
		19. 51	·1042 ***					
		20. 22	·1038					
		20. 45	·1040					
		21. 14	·1028					
		21. 45	·1026					
		22. 44	·1020					
May 23		May 23		May 23		May 23		
0. 23	21. 48. 0	0. 0	·1025	0. 18	·02328	1. 40	60 ·6	61 ·0
0. 45	48. 20	0. 20	·1026	1. 32	·02110	3. 40	63 ·8	64 ·0
1. 5	49. 0	0. 30	·1021	3. 30	·01754	9. 40	60 ·0	60 ·5
1. 21	48. 20	0. 54	·1027	3. 53	·01970	21. 40	59 ·0	59 ·4
1. 30	47. 45	1. 15	·1023	4. 33	·01803			
2. 43	48. 45	1. 23	·1022	5. 48	·01865 / ·01748			
3. 17	47. 20	1. 45	·1028 ***					
3. 32	47. 20			6. 4	·01860 / ·01920			
4. 17	45. 45	2. 40	·1028					
4. 31	44. 30	2. 51	·1018	7. 11	·01818			
4. 51	44. 15	2. 57	·1025	8. 2	·01805			
5. 4	44. 45	3. 0	·1023	8. 54	·01870			
5. 37	45. 20	3. 15	·1032	11. 32	·02202			
5. 50	43. 55	3. 31	·1036	13. 47	·02568			
6. 14	44. 40	3. 37	·1046	15. 29	·02560			
6. 30	43. 35	3. 40	·1041	19. 29	·02548			
7. 36	43. 25	3. 55	·1050	20. 51	·02558			
8. 0	36. 55	4. 35	·1040	21. 58	·02525 / ·02480			
8. 47	41. 35	4. 56	·1049					
9. 31	43. 55	5. 36	·1049	23. 13	·02400			
10. 10	43. 30	5. 42	·1055	23. 53	·02313			
10. 21	44. 0	5. 50	·1055					
10. 38	44. 0	6. 2	·1047					
11. 20	43. 0	6. 20	·1052					
11. 45	43. 45	7. 10	·1054					
12. 13	43. 10 ***	7. 50	·1045					
		8. 12	·1055					
13. 24	43. 30	9. 0	·1048					
13. 41	43. 0	12. 50:	·1058					
14. 31	43. 30	15. 0	·1064					
15. 46	43. 55	15. 51	·1068					
16. 32	42. 30	16. 22	·1068					
16. 49	42. 45	16. 40	·1065					
18. 0	42. 20	17. 44	·1068					
18. 22	40. 30 ***	18. 55	·1063 (†)					
19. 2	40. 30	21. 40	·1027					
19. 16	41. 20							
20. 32	41. 10 ***							
22. 50	47. 0							
23. 4	47. 0							
23. 43	48. 45							
23. 59	49. 55							
May 24		May 24		May 24		May 24		
0. 0	21. 49. 50		(†)	0. 22	·02241	1. 40	58 ·5	59 ·7
0. 7	49. 30	1. 10	·1029	1. 20	·02170	3. 40	61 ·1	61 ·4
0. 53	51. 20	1. 21	·1027	2. 50	·01908	9. 40	60 ·5	61 ·0
1. 30:	52. 15	1. 33	·1027	3. 38	·01744	22. 25	57 ·1	57 ·4
3. 0	49. 30	1. 46	·1026	3. 49	·01740 / ·01771			
3. 30	47. 50	2. 25	·1032					
4. 25	46. 50	2. 35	·1031	4. 48	·01770			
6. 43	44. 30	2. 50	·1036	8. 15	·01690			

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Göttingen Mean Solar Time.	Western Declination.
May 24 h m	° ′ ″
7. 39	21. 43. 40
7. 56	43. 15
9. 0	43. 20
9. 47	44. 0
10. 14	43. 30
11. 22	43. 40
11. 53	43. 20
12. 40	44. 0
13. 16	44. 0
13. 38	44. 20
15. 6	43. 10
15. 57	43. 10
16. 42	42. 50
18. 35	40. 30
19. 36	39. 35
19. 51	40. 0
20. 17	39. 30
20. 52	40. 30
21. 4	40. 20
21. 40	41. 10
23. 59	45. 55
May 25	
0. 0	21. 46. 0
0. 25	46. 40
1. 25	46. 55
2. 0	46. 30
2. 17	47. 0
2. 24	46. 45
3. 10	47. 30
4. 30	46. 30
4. 52	45. 50
5. 32	45. 30
5. 48	45. 40
5. 59	45. 5
6. 3	45. 55
6. 12	45. 5
7. 27	44. 40
9. 0	43. 25
9. 8	42. 50
9. 24	43. 50
9. 35	43. 10
13. 46	43. 10
14. 48	42. 50
15. 13	43. 0
16. 5	42. 30
16. 15	42. 40
16. 28	42. 0
16. 39	42. 15
16. 54	41. 45
17. 0	42. 0
20. 15	47. 40
21. 28	39. 30
22. 7	41. 15
22. 27	43. 0
23. 59	45. 55

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 24 h m	
3. 52	·1035
4. 20	·1030
4. 36	·1031
5. 52	·1032
7. 30	·1039
8. 25	·1036
10. 54	·1034
12. 37	·1033
14. 20	·1034
16. 10	·1037
16. 47	·1039
18. 15	·1038
18. 30	·1038
19. 45	·1037
21. 20	·1026
22. 0	·1023
22. 54	·1020
23. 37	·1016
23. 59	·1014
May 25	
0. 0	·1014
0. 19	·1012
1. 0	·1013
1. 34	·1014
1. 39	·1013
2. 10	·1014
2. 15	·1017
2. 35	·1015
2. 39	·1017
3. 7	·1017
3. 15	·1015
3. 44	·1019
4. 39	·1020
4. 42	·1022
4. 51	·1020
4. 53	·1023
4. 59	·1021
6. 0	·1026
6. 30	·1023
6. 40	·1026
6. 59	·1026
7. 30	·1022
8. 28	·1020
8. 55	·1021
9. 6	·1015
9. 30	·1012
11. 4	·1006
11. 22	·1013
11. 50	·1014
12. 19	·1017
12. 30	·1017
13. 13	·1019
15. 58	·1023
16. 10	·1025
16. 52	·1026

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
May 24 h m	
10. 18	·01722
18. 13	·02457
19. 46	·02584
20. 7	·02588
20. 12	·02558
23. 2	·02556
May 25	
0. 23	·02500
2. 8	·02397
4. 43	·02037
6. 15	·01767
9. 43	·01747
10. 29	·01728
12. 30	·01744
13. 58	·01808
14. 58	·01990
19. 22	·02430
20. 57	·02530
21. 31	·02528
	(†)
22. 29	·02481
22. 52	·02470
	(†)

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 25		
8. 42	·64	·64
21. 40	·59	·60

Göttingen Mean Solar Time.	Western Declination.
h m	′ ″
May 26	
0. 0	21. 46. 0
1. 35	46. 15
2. 0	45. 20
3. 30	44. 30
4. 56	43. 45
5. 43	44. 30
6. 46	41. 5
6. 56	40. 10
7. 12	40. 30
7. 23	41. 50
7. 36	41. 0
7. 43	41. 10
7. 54	40. 30
8. 10	40. 50
8. 18	40. 15
8. 34	40. 10
9. 20	41. 5
9. 32	41. 0
9. 47	41. 20
9. 58	41. 15
10. 16	42. 30
10. 30	44. 0
10. 42	44. 50
11. 45	44. 5
12. 0	44. 20
12. 28	43. 50
12. 36	43. 5
16. 13	42. 45
16. 18	42. 30
17. 23	42. 30
17. 54	43. 10
18. 7	41. 30
19. 21	43. 40
19. 52	44. 20
21. 15	43. 50
21. 24	43. 0
21. 54	43. 0
22. 20	42. 30
22. 45	43. 15
23. 6	43. 30
23. 35	45. 10
23. 44	45. 15
23. 59	46. 5

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 25 h m	
18. 44	·1023
19. 37	·1023
20. 25	·1016
21. 0	·1015
21. 40	·1017
22. 54	·1014
23. 59	·1005
May 26	
0. 0	·1005
0. 22	·1007
0. 37	·1013
1. 12	·1015
1. 26	·1016
1. 37	·1024
1. 59	·1024
2. 30	·1025
3. 3	·1025
3. 10	·1019
3. 52	·1024
4. 43	·1029
4. 52	·1040
6. 0	·1034
6. 25	·1036
6. 45	·1033
7. 6	·1035
7. 30	·1032
9. 40	·1034
10. 2	·1030
10. 26	·1037
10. 57	·1035
11. 22	·1037
11. 32	·1036
11. 39	·1037
11. 48	·1036
11. 57	·1040
14. 10	·1039
14. 16	·1034
14. 23	·1036
16. 0	·1043
17. 10	·1044
17. 52	·1046
18. 22	·1048
19. 12	·1040
19. 20	·1040
19. 44	·1034
20. 22	·1031
20. 43	·1027
21. 39	·1027
22. 19	·1019
22. 35	·1023
23. 7	·1014
23. 12	·1022
23. 25	·1023
23. 48	·1015

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
May 26 h m	
	(†)
1. 32	·02103
3. 6	·01800
	·01870
3. 43	·01842
	(†)
4. 15	·01898
5. 24	·01840
9. 0	·01803
11. 27	·01850
18. 43	·02650
18. 47	·02618
20. 47	·02624
21. 24	·02638
22. 53	·02584
23. 59	·02450

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 26		
1. 40	63 ·0	64 ·0
3. 40	65 ·3	66 ·0
9. 40	63 ·0	64 ·0
21. 40	61 ·9	61 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 26 h m		h m		h m	°	°
		23. 52	·1018					
		23. 59	·1012					
May 27		May 27		May 27		May 27		
0. 0	21. 46. 15	0. 0	·1012	0. 20	·02381	1. 40	65	·0 65 ·0
1. 10	46. 45	0. 6	·1006	1. 19	·02240	3. 40	67	·0 67 ·0
1. 24	46. 25		(†)	2. 52	·01870	9. 40	65	·0 65 ·5
2. 15	47. 30	2. 32	·1007	3. 23	·01908	21. 40	60	·5 61 ·0
3. 34	43. 15		***	4. 42	·01806			
5. 52	43. 30	2. 51	·1002	6. 0	·01873			
6. 18	43. 0		***	8. 34	·01890			
7. 8	43. 10	3. 10	·1003	12. 5	·02012			
7. 21	42. 20		***	15. 24	·02290			
7. 43	41. 45	3. 23	·1010	18. 3	·02510			
9. 55	42. 10		***		·02652			
10. 21	42. 55	3. 40	·1004	20. 9	·02615			
10. 33	42. 45		***	21. 36	·02535			
10. 46	43. 10	5. 0	·1016	22. 28	·02670			
12. 13	42. 30		***	23. 47	·02630			
12. 17	43. 30	5. 22	·1019					
12. 42	42. 15		***					
12. 48	43. 0	6. 31	·1017					
12. 54	42. 45		***					
13. 14	44. 0	6. 58	·1028					
13. 34	41. 30		***					
13. 45	41. 20	7. 12	·1026					
14. 15	45. 0		***					
14. 48	42. 0	7. 24	·1028					
15. 54	39. 0	7. 40	·1018					
16. 11	39. 20	8. 12	·1012					
16. 23	40. 15	8. 30	·1013					
16. 57	39. 20	9. 2	·1010					
17. 30	39. 0	9. 15	·1014					
	***	9. 52	·1014					
17. 39	38. 30	10. 33	·1016					
	***	10. 42	·1018					
19. 45	40. 25	11. 55	·1019					
19. 57	38. 35	12. 12	·1017					
	***	12. 22	·1021					
20. 30	41. 5	12. 35	·1022					
20. 35	39. 30	12. 38	·1020					
20. 40	42. 40	13. 7	·1025					
	***	13. 10	·1028					
21. 15	43. 55	14. 10	·1023					
21. 24	45. 15	14. 39	·1033					
21. 50	45. 0	15. 21	·1032					
22. 30	48. 30	17. 0	·1036					
22. 37	47. 40	18. 10	·1038					
22. 45	49. 35	19. 33	·1039					
	***	21. 30	·1017					
23. 54	46. 40	22. 0	·1014					
		23. 54	·1014					
May 28		May 28		May 28		May 28		
0. 11	21. 46. 10	0. 0	·1020	0. 12	·02616	1. 40	62	·0 63 ·0
0. 21	46. 20	0. 15	·1021	1. 13	·02572	3. 40	61	·0 62 ·0
0. 40	47. 20	0. 55	·1013	2. 39	·02410	9. 40	66	·0 67 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 28		May 28		May 28		May 28		
h m	° ′ ″	h m		h m		h m	°	°
1. 2	21. 47. 0	1. 14	·1019	5. 23	·01910	21. 50	57	·0 59 ·0
3. 2	47. 5	2. 11	·1015		·01947			
3. 41	46. 30	2. 45	·1017	7. 59	·01848			
	(†)	2. 55	·1021	8. 40	·01847			
5. 39	40. 30	3. 14	·1000	10. 58	·01932			
6. 6	40. 10	3. 28	·1005	13. 28	·02204			
6. 31	41. 15	3. 36	·1007	15. 24	·02497			
7. 49	41. 20	3. 44	·1012	16. 30	·02700			
8. 45	42. 30	4. 12	·1001	16. 49	·02649			
9. 41	43. 50	4. 23	·1000	19. 25	·02675			
10. 12	44. 10	4. 37	·1003	23. 57	·02638			
10. 30	43. 30	4. 48	·1013					
12. 6:	43. 5	4. 53	·1013					
13. 42	43. 10	5. 17	·1024					
16. 16	42. 10	5. 28	·1023					
18. 17	44. 5	5. 36	·1019					
18. 54	44. 30	5. 49	·1008					
19. 36	43. 50	6. 15	·1015					
20. 30	44. 10	6. 28	·1020					
20. 45	43. 50	6. 47	·1018					
21. 30	44. 40	7. 6	·1023					
22. 50	47. 50	7. 42	·1023					
23. 54	48. 30	7. 59	·1021					
23. 59	48. 50	8. 15	·1022					
		8. 54	·1021					
		9. 18	·1022					
		9. 37	·1020					
		9. 55	·1021					
		10. 12	·1024					
		10. 30	·1022					
		10. 41	·1025					
		11. 58	·1024					
		17. 42:	·1035					
		19. 30	·1030					
		21. 10	·1032					
		23. 9	·1030					
May 29		May 29		May 29		May 29		
0. 0	21. 48. 55	0. 28	·1014	0. 32	·02450	1. 40	60	·0 61 ·0
0. 28	50. 30	0. 51	·1016	1. 20	·02408	3. 40	63	·0 64 ·0
1. 13	51. 0	1. 14	·1021	1. 47	·02360	8. 0	61	·0 62 ·0
1. 27	50. 45	2. 3	·1020	5. 32	·01888	21. 40	55	·0 56 ·0
1. 42	51. 20	3. 22	·1026	6. 45	·01806			
2. 12	50. 25	3. 30	·1023	8. 43	·01786			
2. 25	50. 30	3. 53	·1024	9. 45	·01810			
3. 33	47. 15	4. 3	·1026	11. 30	·01902			
3. 45	47. 30	4. 19	·1029	14. 9	·02194			
4. 2	46. 30	4. 58	·1029	16. 39	·02610			
4. 9	46. 50	5. 45	·1025		·02562			
6. 41	43. 30	6. 11	·1029	18. 55	·02582			
6. 52	43. 40	6. 31	·1046		·02540			
7. 1	43. 10		***	19. 30	·02587			
7. 15	43. 45	7. 22	·1032	23. 8	·02600			
7. 18	43. 15	7. 39	·1029	23. 41	·02596			
7. 31	42. 50	7. 58	·1032					
8. 20	43. 40	9. 2	·1028					
9. 10	43. 35	10. 3	·1032					
9. 30	42. 30	10. 28	·1027					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 29		May 29						
h m	° ′ ″	h m		h m		h m	°	°
9. 55	21. 42. 30	11. 24	·1025					
10. 10	42. 15	12. 30	·1027					
10. 40	42. 30	12. 48	·1025					
11. 6	43. 30	13. 14	·1029					
11. 40	42. 40	13. 44	·1027					
12. 45	42. 35	17. 32	·1038					
13. 17	43. 30	19. 13	·1038					
13. 34	42. 40	19. 40	·1035					
13. 47	43. 10	20. 7	·1031					
14. 13	42. 30		***					
15. 54	42. 40	21. 25	·1027					
16. 12	42. 45		***					
16. 18	42. 15	23. 28	·1026					
16. 45	42. 25		***					
18. 35	41. 30	23. 48	·1028					
20. 0	39. 55	23. 59	·1022					
20. 35	40. 15							
20. 47	39. 30							
21. 0	40. 30							
21. 30	40. 55							
21. 42	41. 30							
21. 52	41. 15							
22. 11	42. 45							
22. 31	43. 0							
22. 58	45. 0							
23. 59	46. 30							
May 30		May 30		May 30		May 30		
0. 0	21. 46. 30	0. 0	·1022	0. 18	·02560	1. 40	57 ·2	58 ·5
0. 6	46. 35	1. 25	·1014	1. 7	·02547	3. 40	58 ·8	60 ·0
0. 30	46. 10	2. 3	·1011	2. 5	·02490	9. 40	60 ·0	61 ·4
2. 56	47. 30	3. 5	·1009	5. 26	·02000	21. 40	53 ·6	55 ·0
6. 3	44. 15	4. 20	·1012	6. 53	·01852			
6. 27	43. 20		***	8. 8	·01799			
7. 1	43. 20	6. 10	·1023	10. 44	·01808			
7. 22	42. 45	6. 19	·1027	14. 57	·02218			
8. 0	43. 10	6. 23	·1025	15. 32	·02310			
8. 17	42. 30		***	17. 47	·02577			
9. 2	42. 25	7. 28	·1028		·02538			
9. 25	43. 0	7. 51	·1026	21. 9	·02530			
10. 16	43. 0	8. 0	·1031	21. 13	·02487			
10. 50	42. 30	8. 12	·1031	23. 8	·02512			
11. 19	42. 55	9. 14	·1028	23. 18	·02480			
14. 17	43. 30	13. 30	·1034	23. 43	·02488			
14. 48	43. 0	14. 7	·1031					
15. 9	43. 10	15. 52	·1035					
15. 24	42. 40	17. 45	·1039					
16. 43	42. 30	18. 20	·1039					
18. 20	39. 30	18. 50	·1040					
18. 30	39. 50	20. 20	·1038					
	***	22. 0	·1029					
19. 40	39. 0	23. 7	·1022					
19. 46	38. 15	23. 51	·1020					
19. 55	38. 30							
20. 7	37. 50							
20. 25	38. 50							
20. 45	38. 10							
21. 13	39. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 30								
h m	° ′ ″	h m		h m		h m	°	°
21. 25	21. 39. 25							
21. 45	41. 5							
21. 49	40. 30							
23. 16	46. 10							
23. 23	46. 0							
23. 45	47. 30							
23. 59	48. 30							
May 31		May 31		May 31		May 31		
0. 0	21. 48. 30		(†)	0. 47	·02448	1. 40	54 ·0	55 ·0
0. 11	48. 35	2. 37	·1023	2. 45	·02370	3. 40	56 ·0	56 ·8
	(†)	3. 30	·1027	6. 9	·02024	9. 40	58 ·0	59 ·0
3. 13	47. 15	3. 50	·1029	7. 43	·01877	23. 25	56 ·5	58 ·0
3. 32	47. 15	4. 7	·1029	11. 30	·01712			
4. 41	46. 10	4. 21	·1031	14. 45	·01660			
6. 5	43. 0	5. 0	·1031	16. 17	·01680			
6. 37	42. 30	5. 20	·1037	19. 53	·01773			
9. 15	43. 0	5. 48	·1037	22. 11	·01870			
9. 45	44. 0	6. 12	·1039	22. 45	·01861			
12. 50	43. 0	6. 43	·1040	23. 59	·01858			
13. 15	43. 20	7. 7	·1043					
15. 16	42. 55	7. 26	·1043					
15. 21	42. 30	7. 37	·1040					
15. 44	43. 40	9. 24	·1038					
16. 15	42. 15	9. 54	·1039					
16. 32	42. 10	10 12	·1037					
16. 55	42. 5	11. 30	·1035					
17. 2	42. 5	12. 35	·1037					
17. 32	40. 25	12. 39	·1035					
17. 58	39. 30	12. 49	·1037					
19. 0	39. 0	14. 10	·1036					
19. 16	38. 15	15. 42	·1039					
20. 15	37. 50	15. 52	·1041					
21. 7	38. 30	16. 10	·1039					
22. 15	42. 5	18. 5	·1040					
22. 44	42. 45	19. 22	·1036					
23. 13	44. 30	21. 30	·1021					
23. 59	46. 50	22. 0	·1020					
		23. 22	·1021					
June 1		June 1		June 1		June 1		
0. 0	21. 46. 55	0. 15	·1031	0. 44	·01850	11. 40	60 ·0	61 ·0
1. 42	48. 50	0. 58	·1032	3. 38	·01837	21. 40	58 ·0	58 ·5
2. 27	47. 25	1. 37	·1036	6. 10	·01660			
3. 0	47. 30	2. 30	·1035	6. 15	·01690			
4. 40	45. 50	3. 44	·1038	8. 13	·01712			
6. 9	44. 30	4. 20	·1037	8. 30	·01716			
6. 44	43. 45	6. 22	·1040	10. 9	·01757			
8. 24	43. 25	6. 55	·1039	11. 47	·01700			
9. 4	43. 35	7. 15	·1040	14. 9	·01728			
11. 15	42. 20	7. 22	·1042	14. 40	·01757			
12. 32	43. 10	7. 50	·1038	18. 14	·02148			
12. 43	42. 50	8. 22	·1037	20. 28	·02330			
13. 47	43. 55	9. 22	·1037	21. 12	·02360			
14. 23	43. 15	9. 40	·1034	22. 10	·02312			
14. 47	43. 35	10. 25	·1031	23. 27	·02159			
15. 20	42. 40	12. 33	·1034	23. 59	·02069			
15. 48	42. 20	13. 21	·1037					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 1		June 1						
h m	° ′ ″	h m		h m		h m	°	°
16. 33	21. 42. 25	13. 40	·1039					
17. 9	41. 55	14. 34	·1038					
18. 21	40. 20	15. 44	·1041					
19. 6	38. 45	16. 7	·1041					
19. 32	39. 10	16. 25	·1043					
20. 44:	40. 10	17. 20	·1044					
21. 40	42. 15	18. 55	·1039					
22. 2	43. 30	20. 12	·1025					
22. 48	45. 40	20. 52	·1021					
23. 4	46. 30	21. 25	·1017					
23. 12	46. 40	21. 52	·1010					
		23. 10	·1011					
June 2		June 2		June 2		June 2		
0. 1	21. 49. 5	0. 6	·1018	0. 24	·01940	1. 40	63·8	64·0
2. 32	49. 0	0. 50	·1017	1. 21	·01768	3. 40	66·4	67·0
3. 17:	47. 55	1. 10	·1019	2. 1	·01846	9. 40	70·0	70·8
3. 50	46. 50	1. 18	·1018	2. 13	·01892	21. 40	62·9	63·2
4. 57	43. 45	1. 24	·1022	3. 5	·01603			
5. 10	43. 30		***		·01924			
5. 31	42. 15	2. 7	·1017	3. 44	·01922			
6. 12	42. 20	2. 15	·1017		·01944			
6. 32	43. 0	2. 51	·1008	5. 12	·01937			
6. 42	42. 30	3. 42	·1006	6. 24	·01970			
7. 2	42. 55	3. 52	·1009	8. 58	·01890			
7. 41	42. 20	4. 17	·1007	11. 19	·01932			
7. 52	42. 40	4. 25	·1004	11. 57	·01977			
8. 49	42. 10	4. 52	·1005	14. 17	·02230			
9. 11	42. 15	5. 3	·1009	16. 17	·02560			
9. 46	41. 20	5. 24	·1008	16. 48	·02709			
9. 57	42. 0	5. 30	·1013	17. 8	·02717			
10. 32	42. 0	5. 48	·1014		·02646			
10. 47	40. 10	5. 55	·1017	22. 20	·02658			
11. 1	41. 40	6. 7	·1015	23. 25	·02590			
11. 24	39. 45	6. 30	·1019					
11. 45	40. 50	6. 37	·1015					
12. 50	41. 45	7. 27	·1013					
14. 26	41. 50	7. 32	·1009					
15. 10	42. 20	7. 55	·1017					
15. 21	41. 25	8. 12	·1013					
16. 7	41. 30	8. 27	·1018					
16. 54	40. 50	8. 52	·1013					
17. 25	40. 0	10. 39	·1016					
17. 51	39. 35	11. 2	·1029					
18. 12	39. 35	11. 28	·1022					
19. 10	38. 30	11. 40	·1019					
20. 25	37. 45	12. 0	·1020					
22. 2	40. 0	12. 4	·1022					
22. 35	42. 50	12. 12	·1020					
23. 59	49. 55	12. 32	·1025					
		13. 29	·1024					
		14. 22	·1027					
		14. 31	·1028					
		14. 41	·1028					
		14. 58	·1031					
		15. 13	·1030					
		15. 31	·1031					
		15. 57	·1030					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		June 2						
h m	° ′ ″	h m		h m		h m	°	°
		16. 16	·1033					
		16. 22	·1032					
		16. 41	·1033					
		17. 37	·1037					
		17. 45	·1036					
		18. 7	·1037					
		18. 46	·1033					
		19. 10	·1030					
		19. 24	·1036					
		20. 12	·1030					
		22. 41	·1009					
		23. 12	·1008					
		23. 29	·1008					
June 3		June 3		June 3		June 3		
0. 0	21. 50. 0	0. 0	·1012	0. 15	·02550	1. 40	67·3	68·0
0. 47:	51. 50	0. 30	·1007	1. 36	·02316	3. 40	70·1	71·0
2. 12	51. 0	0. 43	·1005	1. 58	·02219	9. 40	74·0	74·0
4. 2	47. 15	0. 54	·1010		(†)	21. 40	65·0	65·0
6. 32	42. 50	1. 30	·1014	3. 40	·01947*			
9. 4	41. 45	1. 43	·1012		(†)			
11. 12	42. 45	1. 58	·1015	6. 3	·01942			
12. 20	42. 40	2. 17	·1014	7. 32	·01897			
14. 27	43. 15		(†)	8. 13	·01856			
15. 15	43. 10	3. 40	·1017*	8. 43	·01837			
15. 52	42. 50		(†)	11. 9	·01900			
17. 9	41. 55	5. 5	·1013	14. 17	·02240			
17. 48	41. 25	6. 8	·1017	16. 26	·02670			
18. 21	41. 0	6. 14	·1015	16. 51	·02610			
	***	7. 4	·1019	18. 8	·02610			
20. 9	40. 30	8. 0	·1020	19. 0	·02590			
20. 58	38. 45	8. 15	·1023	20. 56	·02604			
22. 7	40. 30	8. 27	·1026	21. 46	·02630			
22. 41	43. 20	8. 30	·1024	22. 43	·02604			
23. 30	47. 0	8. 35	·1026	23. 30	·02496			
		8. 58	·1025					
		9. 48	·1028					
		10. 0	·1026					
		10. 15	·1029					
		11. 44	·1032					
		12. 0	·1031					
		12. 29	·1034					
		13. 16	·1034					
		14. 27	·1037					
		14. 31	·1039					
		15. 32	·1041					
		17. 25	·1046					
		18. 31	·1050					
			***					
		19. 4	·1046					
		19. 17	·1049					
		19. 22	·1051					
		19. 44	·1046					
		20. 6	·1038					
		20. 53	·1030					
		21. 22	·1029					
		22. 24	·1034					
			(†)					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Readings of Thermometers. Of V. F. Magnet
June 4		June 4		June 4		June 4		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 51. 2*	0. 15	·1025	0. 33	·02421	1. 40	69·5	69·5
3. 40	49. 24*	0. 38	·1023	2. 36	·01960	3. 40	71·0	71·0
9. 40	38. 43*	0. 47	·1027	3. 15	·01790	9. 40	71·0	71·5
21. 40	39. 33*	1. 35	·1019	3. 46	·01896	21. 40	61·7	62·0
			***	7. 39	·01903			
		2. 55	·1026	8. 52	·01888			
		3. 51	·1030	10. 39	·01960			
		4. 14	·1038	11. 42	·02057			
		5. 2	·1037	13. 28	·02258			
		5. 27	·1043		·02280			
		5. 45	·1042	14. 40	·02490			
		6. 14	·1054	15. 17	·02606			
		6. 42	·1052	17. 17	·02604			
		6. 53	·1057	20. 11	·02577			
		7. 3	·1053	20. 52	·02581			
		7. 45	·1056	22. 55	·02572			
		8. 12	·1052	23. 36	·02593			
		9. 10	·1053					
		9. 24	·1051					
		9. 41	·1054					
		11. 8	·1056					
		11. 28	·1062					
		12. 7	·1061					
		13. 25	·1055					
		13. 53	·1058					
		15. 14	·1062					
			(†)					
		21. 40	·1053*					
			(†)					
June 5		June 5		June 5		June 5		
1. 40	21. 47. 25*	0. 0	·1061	0. 0	·02574	1. 40	64·3	65·0
3. 40	48. 34*	1. 40	·1062	1. 58	·02457	3. 40	66·6	67·3
9. 40	43. 20*	2. 37	·1058	4. 45	·02110	9. 40	66·4	66·5
21. 40	40. 49*	3. 22	·1063	6. 38	·01939	21. 40	58·0	58·3
		4. 5	·1061	8. 38	·01864			
		5. 19	·1070	10. 35	·01924			
		6. 34	·1072	11. 21	·01998			
		7. 15	·1075	15. 7	·02570			
		8. 51	·1077	15. 17	·02490			
		9. 6	·1074	16. 55	·02522			
		9. 43	·1078	17. 14	·02480			
		11. 6	·1079	17. 46	·02492			
		11. 35	·1082	22. 23	·02539			
		11. 52	·1086	23. 24	·02472			
		12. 28	·1080					
		12. 53	·1084					
		13. 24	·1085					
		13. 35	·1089					
		16. 40	·1091					
		17. 30	·1093					
		19. 5	·1094					
		19. 30	·1090					
		20. 27	·1083					
		21. 6	·1074					
			(†)					
		23. 59	·1069					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Readings of Thermometers. Of V. F. Magnet
June 6		June 6		June 6		June 6		
h m	° ′ ″	h m		h m		h m	°	°
0. 41	21. 45. 0	0. 0	·1069	0. 0	·02432	1. 40	65·0	65·5
1. 13	45. 55	0. 22	·1073	0. 59	·02377	3. 40	65·8	66·0
1. 31	46. 55	1. 2	·1074	1. 56	·02270	9. 40	67·3	68·0
1. 41	46. 45	1. 22	·1073	3. 14	·02057	21. 40	62·0	61·5
1. 51	47. 10	1. 53	·1077	5. 17	·01660			
1. 58	47. 10	2. 5	·1079	5. 32	·01721			
3. 0	49. 20	2. 19	·1079	8. 10	·01711			
3. 8	49. 10	5. 0	·1083	10. 7	·01690			
3. 17	49. 50	5. 45	·1084	11. 13	·01710			
3. 30	49. 30	6. 17	·1085	13. 45	·01828			
3. 41	49. 30	6. 32	·1085	15. 9	·01980			
3. 54	48. 20	6. 37	·1083	17. 0	·02250			
4. 16	47. 55	7. 0	·1086	19. 24	·02620			
4. 57	48. 50	7. 55	·1083	19. 47	·02518			
5. 27	47. 45	8. 6	·1081	21. 11	·02530			
7. 45	46. 0	8. 33	·1080	21. 54	·02557			
10. 13	44. 5	8. 37	·1082	22. 28	·02542			
11. 38	42. 10	9. 6	·1079	23. 40	·02461			
12. 55	42. 45	9. 32	·1079					
13. 21	42. 30	9. 41	·1081					
14. 43	42. 45	10. 52	·1079					
15. 49	42. 15	11. 0	·1077					
17. 6	42. 15	12. 22	·1080					
18. 46	41. 50	13. 45	·1078					
18. 59	41. 15	14. 6	·1080					
19. 11	41. 40	15. 5	·1079					
20. 43	39. 10	15. 12	·1078					
22. 21	39. 40	15. 18	·1083					
22. 45	40. 30	15. 22	·1081					
23. 26	41. 15	16. 35	·1080					
23. 59	42. 40	16. 48	·1077					
		17. 0	·1080					
		17. 13	·1080					
		17. 21	·1082					
		17. 34	·1077					
		17. 51	·1080					
		18. 36	·1075					
		18. 41	·1081					
		19. 9	·1079					
		19. 17	·1085					
		19. 21	·1082					
		19. 30	·1083					
		21. 25	·1075					
		21. 56	·1071					
		22. 18	·1071					
		22. 58	·1066					
		23. 14	·1063					
		23. 40	·1064					
June 7		June 7		June 7		June 7		
0. 0	21. 42. 40		(†)		(†)	1. 40	65·0	66·0
0. 45	43. 20	1. 40	·1065*	1. 40	·02154*	3. 40	67·0	68·0
	(†)	3. 40	·1052*	3. 40	·01785*	9. 40	70·5	71·0
1. 40	49. 23*		(†)		(†)	22. 55	62·5	63·0
3. 40	51. 0*	7. 47	·1080	5. 57	·01812			
5. 52	45. 15	9. 7	·1076	8. 45	·01775			
6. 40	44. 15	9. 32	·1078	10. 59	·01792			
7. 17	44. 0	10. 35	·1078	11. 46	·01824			
7. 40	43. 35	10. 52	·1068	12. 27	·01857			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 4 and 5. Western Declination. The Photographic Trace was faint on both these days.

Göttingen Mean Solar Time.	Western Declination.
June 7	
h m	° ′ ″
9. 48	21. 43. 50
10. 32	42. 55
10. 50	43. 50
11. 13	40. 0
11. 29	42. 10
11. 56	41. 10
13. 7	41. 30
13. 30	40. 40
14. 3	40. 55
14. 28	40. 40
15. 46	41. 45
16. 15	42. 15
18. 25	39. 30
19. 45	39. 30
20. 13	40. 25
20. 17	39. 0
20. 47	40. 30
21. 10	40. 0
22. 9	42. 0
23. 59	45. 50
June 8	
0. 0	21. 46. 0
0. 30	47. 25
1. 21	47. 0
1. 40	47. 30
2. 44	48. 0
3. 0	47. 45
3. 27	47. 40
7. 26	44. 0
7. 46	44. 15
8. 17	43. 55
8. 28	43. 30
8. 42	43. 40
9. 17	43. 20
9. 48	44. 0
10. 0	43. 30
11. 0	43. 20
11. 49	42. 30
12. 29	42. 40
12. 34	43. 30
12. 45	42. 50
13. 2	44. 45
13. 15	43. 45
13. 25	43. 30
13. 44	41. 50
14. 13	41. 40
14. 39	42. 30
15. 55	42. 30
19. 26	38. 30
19. 40	37. 40
20. 17	39. 0
21. 54	41. 20
22. 41	43. 15
23. 45	47. 20
23. 59	47. 45

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 7	
h m	
11. 28	·1080
12. 0	·1080
12. 52	·1075
13. 37	·1074
	***
17. 50	·1088
	***
21. 15	·1080
	(†)
22. 55	·1074*
23. 59	·1053
June 8	
0. 0	·1053
0. 20	·1051
1. 12	·1052
1. 25	·1057
1. 34	·1057
1. 40	·1058
2. 51	·1053
3. 6	·1057
5. 30	·1061
6. 26	·1066
7. 14	·1062
7. 25	·1064
8. 24	·1059
8. 37	·1062
8. 55	·1059
9. 1	·1061
9. 7	·1057
9. 16	·1059
9. 32	·1056
9. 45	·1063
10. 0	·1053
10. 37	·1053
10. 50	·1051
12. 0	·1062
12. 20	·1057
13. 10	·1063
14. 0	·1063
14. 7	·1064
14. 37	·1066
15. 7	·1070
16. 10	·1070
16. 22	·1068
16. 32	·1065
17. 10	·1065
17. 23	·1063
17. 37	·1064

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 7	
h m	
13. 0	·01910
14. 31	·02124
15. 32	·02335
16. 48	·02610 }
	·02550 }
19. 13	·02551
20. 10	·02564
21. 32	·02596
22. 21	·02555
23. 27	·02506
June 8	
0. 0	·02484
2. 31	·02390
4. 17	·02224
5. 26	·02040
7. 15	·01770
7. 22	·01840
13. 59	·01770
14. 58	·01828
17. 10	·02037
20. 22	·02410
22. 25	·02552
23. 30	·02570

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 8		
h m	°	°
9. 40	71 ·3	72 ·0
21. 40	67 ·0	67 ·4

Göttingen Mean Solar Time.	Western Declination.
June 9	
h m	° ′ ″
0. 0	21. 47. 30
1. 29	49. 20
2. 28	49. 5
3. 13	48. 5
4. 17	46. 30
4. 40	46. 15
5. 17	45. 30
6. 11	44. 35
7. 50	43. 45
9. 33	44. 50
10. 4	42. 15
10. 25	44. 30
10. 49	43. 20
11. 0	42. 45
11. 8	42. 45
11. 28	41. 5
11. 41	41. 45
11. 47	41. 30
12. 18	42. 20
12. 37	42. 0
13. 32	43. 50
13. 58	42. 30
14. 11	42. 50
14. 29	42. 10
15. 2	47. 20
15. 23	45. 10
16. 10	42. 10
16. 43	41. 55
17. 9	42. 20
17. 30	42. 30
18. 6	40. 20
19. 17	39. 10
20. 25:	39. 30
21. 55	40. 15
22. 46	43. 20
23. 1	44. 50
23. 59	46. 50
June 10	
0. 0	21. 46. 50
0. 8	46. 40
	(†)
1. 58	48. 20

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 8	
h m	
17. 46	·1063
18. 10	·1065
18. 17	·1063
18. 33	·1064
18. 36	·1063
19. 5	·1063
19. 40	·1058
19. 55	·1059
21. 33	·1054
	***
22. 50	·1057
23. 36	·1057
23. 59	·1056
June 9	
0. 0	·1056
0. 25	·1055
0. 45	·1050
0. 55	·1051
1. 12	·1049
1. 30	·1056
	(†)
3. 40	·1056
6. 2	·1058
7. 13	·1064
9. 0	·1062
9. 16	·1070
9. 40	·1060
10. 12	·1062
10. 22	·1068
10. 55	·1063
11. 2	·1065
11. 12	·1058
11. 32	·1053
	(†)
21. 40	·1041*
June 10	
1. 40	·1034*
	(†)
2. 2	·1026
2. 55	·1034

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 9	
h m	
1. 7	·02572
1. 44	·02567
2. 42	·02499
3. 19	·02424
5. 13	·02057
6. 44	·01810 }
	·01892 }
8. 43	·01818
9. 32	·01818
11. 30	·01890
14. 35	·02130
16. 0	·02308
16. 58	·02470
18. 27	·02679
18. 40	·02610
20. 55	·02650
22. 41	·02707
23. 33	·02668
23. 57	·02613
June 10	
0. 28	·02696
3. 28	·02090
5. 44	·01824
5. 53	·01831

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 9		
h m	°	°
1. 40	69 ·1	69 ·4
3. 40	69 ·5	70 ·0
9. 40	71 ·5	71 ·5
21. 40	67 ·0	67 ·0
June 10		
1. 40	70 ·2	70 ·3
3. 40	72 ·0	72 ·3
9. 40	70 ·0	71 ·0
21. 40	62 ·0	62 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 10		June 10		June 10				
h m	° ′ ″	h m		h m		h m	°	°
3. 3	21. 49. 35	3. 18	·1038	6. 9	·01790			
4. 5	48. 0	3. 37	·1041	6. 21	·01790			
4. 17	47. 0	3. 55	·1036		·01894			
5. 13	45. 45	4. 3	·1038	9. 10	·01856			
5. 31	46. 50		(†)	10. 37	·01910			
5. 47	46. 45	9. 40	·1048*	11. 32	·01992			
5. 53	45. 45	21. 40	·1030*	13. 33	·02297			
6. 5	46. 55			14. 52	·02556			
6. 13	46. 0			15. 40	·02528			
6. 39	46. 55			17. 56	·02544			
7. 43	44. 10			20. 28	·02510			
8. 13	43. 40			22. 12	·02546			
8. 41	44. 30			23. 55	·02424			
8. 50	43. 55							
9. 43	43. 55							
10. 10	45. 10							
10. 48	39. 30							
11. 5	39. 30							
11. 15	41. 10							
11. 28	44. 30							
11. 42	44. 30							
12. 3	37. 30							
12. 54	36. 50							
13. 27	38. 55							
	***							
14. 2	37. 0							
14. 47	40. 40							
14. 55	40. 0							
15. 9	42. 10							
15. 17	41. 30							
15. 40	43. 15							
16. 5	42. 10							
16. 13	42. 10							
17. 7	40. 30							
17. 17	42. 0							
17. 57	40. 55							
18. 19	43. 40							
19. 15	42. 15							
19. 21	43. 40							
19. 32	41. 30							
19. 40	41. 10							
19. 46	43. 10							
19. 48	42. 30							
19. 59	43. 40							
21. 27	42. 45							
22. 16	46. 0							
22. 32	45. 50							
23. 13	48. 40							
23. 43	49. 5							
June 11		June 11		June 11		June 11		
0. 7	21. 49. 40	1. 40	·1034*	0. 14	·02383	1. 40	66 ·0	67 ·0
0. 15	48. 45	3. 40	·1034*	1. 44	·02196	3. 40	71 ·0	71 ·2
0. 45	50. 45	9. 40	·1012*	3. 16	·01744	9. 40	71 ·0	71 ·2
0. 58	50. 10	21. 40	·1006*		·01823	21. 40	63 ·0	63 ·2
1. 47	51. 45			4. 43	·01809			
2. 29	50. 40			5. 28	·01829			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 11				June 11				
m m	° ′	h m		h m		h m		
2. 52	21. 48. 15				·01780			
3. 4	49. 0			6. 53	·01822			
4. 12	48. 40			8. 30	·01770			
4. 49	43. 40			9. 8	·01[illegible]			
5. 17	43. 10			10. 48	·018[illegible]			
5. 39	44. 30			11. 45	·02015			
6. 30	45. 50			14. 47	·02632			
8. 30	43. 30			14. 55	·02566			
8. 43	44. 0			16. 12	·02570			
9. 2	43. 30			20. 23	·02600			
9. 29	44. 20			22. 30	·02549			
9. 47	37. 40			23. 34	·02470			
9. 55	39. 30			23. 59	·02411			
10. 9	38. 30							
10. 19	40. 25							
10. 30	39. 20							
11. 2	44. 0							
11. 29	43. 0							
12. 1	44. 40							
12. 28	41. 55							
12. 45	42. 5							
12. 56	42. 40							
13. 48	42. 20							
14. 0	43. 35							
14. 11	42. 20							
14. 48	43. 45							
15. 1	43. 10							
15. 7	44. 5							
15. 24	43. 40							
15. 40	44. 0							
15. 48	43. 35							
15. 56	44. 0							
16. 11	43. 0							
16. 38	42. 10							
17. 41	44. 20							
18. 31	42. 55							
18. 57	43. 30							
19. 34	41. 10							
21. 18	41. 30							
21. 40	42. 30							
21. 56	41. 35							
23. 10	45. 10							
23. 44	45. 20							
23. 59	46. 20							
June 12		June 12		June 12		June 12		
1. 40	21. 49. 14*		(†)	0. 20	·02344	1. 40	67 ·0	67 ·0
3. 40	47. 18*	1. 40	·1028	2. 13	·02132	3. 40	67 ·2	67 ·4
9. 40	42. 35*	4. 5	·1021	4. 14	·01784	9. 40	67 ·0	68 ·0
21. 40	41. 47*	4. 25	·1018	4. 48	·01[illegible]	21. 40	65 ·1	66 ·0
		5. 30	·1019	8. 19	·018[illegible]			
		6. 12	·1023	14. 30	·[illegible]			
		6. 20	·1020	16. 12	·02078			
		8. 25	·1033	20. 15	·02440			
		8. 54	·1033	20. 22	·02404			
		9. 12	·1031	22. 0	·02446			
		10. 23	·1035	22. 42	·02440			
		10. 55	·1030	23. 59	·02390			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 12. Western Declination. The Photographic Trace was too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 12 h m		h m		h m	°	°
		12. 12	·1030					
		15. 20	·1032					
		17. 50	·1034					
		18. 21	·1033					
		18. 37	·1030					
		20. 13	·1033					
		20. 40	·1037					
		21. 14	·1036					
		23. 22	·1040					
		23. 59	·1038					
June 13		June 13		June 13		June 13		
0. 0	21. 46. 10	0. 0	·1038	0. 25	·02364	1. 40	65·8	66·3
0. 43	48. 5	0. 16	·1036	1. 20	·02358	3. 40	66·	66·8
1. 17	48. 55	0. 30	·1037	6. 10	·02240	9. 40	66·5	67·0
4. 21	50. 0	0. 40	·1036	6. 24	·02218	21. 40	65·	66·3
5. 12	48. 20	0. 45	·1037	8. 0	·02230			
5. 18	50. 30	1. 15	·1037	8. 47	·02225			
5. 41	50. 10		(†)	14. 30	·02280			
5. 55	47. 15	3. 40	·1038*	19. 24	·02490			
7. 16	46. 50	9. 40	·1038*	21. 33	·02556			
7. 35	44. 55	21. 40	·1011*	23. 13	·02558			
8. 0	45. 50			23. 43	·02577			
8. 20	44. 40			23. 59	·02572			
8. 47	45. 30							
10. 2	46. 5							
10. 25	46. 40							
11. 3	45. 55							
12. 0	46. 15							
12. 43	45. 30							
13. 30	47. 30							
14. 46	46. 0							
15. 37	43. 55							
16. 20	45. 5							
16. 34	44. 30							
18. 21	41. 50							
20. 45	41. 5							
21. 53	43. 40							
22. 11	43. 5							
	(†)							
June 14		June 14		June 14		June 14		
0. 39	21. 50. 30	1. 40	·1025*	0. 43	·02498	1. 40	66·0	66·4
0. 48	49. 40	3. 40	·1020*	1. 55	·02450	3. 40	66·5	67·1
1. 48	50. 30	9. 40	·1025*	4. 47	·02164	9. 40	66·0	66·5
3. 30	47. 30	21. 40	·1024*	6. 6	·02109	23. 19	60·0	60·4
4. 9	47. 0			6. 44	·02118			
4. 36	46. 10			8. 40	·02200			
6. 45	44. 30			11. 43	·02458			
8. 48	45. 15			14. 13	·02648			
9. 7	44. 55				·02587			
9. 43	45. 30			15. 59	·02597			
10. 15	45. 5			16. 11	·02554			
10. 47	45. 50			16. 40	·02590			
12. 0	46. 0			22. 0	·02587			
13. 2	45. 15			23. 46	·02540			
13. 30	46. 30							
14. 16	45. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 14 h m	° ′ ″	h m		h m		h m	°	°
15. 0	21. 45. 10							
17. 40	44. 0							
18. 0	43. 15							
18. 50	44. 0							
19. 55:	43. 0							
21. 15:	43. 40							
22. 22	46. 20							
23. 15	50. 0							
23. 59	52. 0							
June 15		June 15		June 15		June 15		
7. 35	21. 44. 40*	7. 35	·1032	0. 0	·02492	7. 35	65·0	66·1
21. 40	42. 49*	21. 40	·1013	0. 24	·02470	21. 40	59·8	60·1
				4. 22	·01876			
				5. 21	·01684			
				5. 46	·01728			
				10. 44	·01678			
				13. 30	·01877			
				13. 46	·01930			
				14. 16	·01970			
				15. 12	·02107			
				16. 13	·02313			
				17. 39	·02587			
				18. 7	·02492			
				20. 30	·02512			
				21. 44	·02550			
				23. 10	·02450			
				23. 59	·02336			
June 16		June 16		June 16		June 16		
0. 22	21. 49. 55	1. 40	·1012*		(†)	1. 40	65·9	66·0
0. 41	49. 5	3. 40	·1018*	1. 27	·02128	3. 40	67·4	68·2
2. 39	48. 30	9. 40	·1029*	2. 53	·01750	9. 40	68·0	69·0
3. 27	47. 45	21. 40	·1024*	3. 17	·01770	21. 40	62·0	63·1
3. 40	48. 0			4. 6	·01790			
4. 13	46. 35				(†)			
5. 57	44. 40			5. 10	·02210			
6. 14	44. 10			5. 21	·02178			
6. 29	43. 5			5. 48	·02168			
8. 29	43. 40			7. 44	·01970			
8. 47	43. 15			8. 43	·01938			
8. 55	43. 40			10. 58	·02040			
9. 33	43. 20			15. 3	·02350			
10. 11	43. 30			16. 17	·02547			
10. 32	47. 30			16. 43	·02610			
11. 7	43. 20			17. 26	·02650			
11. 25	43. 10			17. 33	·02598			
11. 32	42. 40			19. 28:	·02592			
12. 27	43. 40			21. 0	·02627			
13. 23	43. 0			23. 30	·02580			
14. 23	44. 40			23. 59	·02546			
15. 6	44. 35							
15. 18	46. 5							
15. 38	44. 30							
16. 0	43. 30							
16. 24	44. 20							
17. 0	43. 40							
17. 17	45. 10							
18. 39	41. 50							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

June 15. The Photographic Trace for the Declination Magnet was too faint to use; the Western Declination varied during the day from 21°.42′ to 21°.52′.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June16								
h m	° ′ ″	h m		h m		h m	°	°
18. 48	21. 42. 0							
21. 25	43. 20							
22. 45	45. 20							
23. 0	46. 20							
23. 59	48. 5							
June17		June17		June17		June17		
1. 40	21. 50. 19	1. 40	·1031	0. 45	·02492	1. 40	64 ·0	65 ·0
3. 40	48. 54*	3. 40	·1032*	4. 7	·02170	3. 40	66 ·0	67 ·0
9. 40	42. 28*	9. 40	·1027*	7. 44	·01770	9. 40	68 ·0	69 ·0
21. 40	42. 19*	21. 40	·1030		·01850	21. 40	63 ·0	63 ·3
				13. 55	·01788			
				15. 23	·01970			
				16. 6	·02060			
				18. 54	·02604			
				19. 35	·02557			
				21. 24	·02603			
					(†)			
June18		June18		June18		June18		
0. 17	21. 49. 55		(†)	0. 24	·02337	1. 40	65 ·0	66 ·4
1. 28	50. 20	1. 40	·1004	1. 45	·02190	3. 40	66 ·0	66 ·0
1. 59	51. 40	3. 40	·1018*	2. 48	·02012	9. 40	66 ·0	66 ·3
4. 41	46. 25	5. 14	·1012	4. 3	·01866	21. 40	58 ·8	60 ·0
5. 42	45. 0	5. 23	·1007	4. 54	·01800			
	***		***	6. 23	·01770			
6. 54	44. 0	6. 25	·1015	7. 27	·01800			
7. 45	40. 30		***	7. 50	·01773			
9. 16	44. 30	7. 36	·1013	8. 20	·01770			
9. 30	43. 55	8. 3	·1019	9. 0	·01804			
10. 33	45. 20	8. 22	·1018	9. 45	·01797			
14. 29	46. 0	8. 35	·1015	11. 59	·01984			
14. 48	46. 30	8. 40	·1016	13. 0	·02120			
15. 30	44. 30	9. 7	·1016	14. 15	·02291			
16. 9	44. 45	9. 22	·1013	15. 18	·02462			
16. 31	42. 40	9. 55	·1017	16. 6	·02596			
17. 33	41. 30	10. 4	·1014	16. 43	·02548			
17. 43	40. 50	10. 22	·1017	17. 0	·02548			
18. 33	40. 55	11. 54	·1022	17. 15	·02570			
18. 54	40. 0	12. 7	·1024	20. 8	·02570			
19. 24	40. 30	14. 10	·1034	20. 32	·02552			
19. 43	41. 30	14. 28	·1032	22. 39	·02557			
20. 27	40. 50	15. 5	·1037		(†)			
20. 44	41. 50	16. 37	·1039					
21. 0	41. 20	17. 5	·1037					
21. 38	42. 0	17. 45	·1038					
22. 39	45. 50	18. 16	·1039					
23. 59	45. 50	19. 22	·1036					
			(†)					
		21. 40	·1028*					
June19		June19		June19		June19		
	(†)		(†)		(†)			
3. 15	21. 47. 20	1. 40	·1034	1. 27	·02570	1. 40	60 ·4	61 ·0
6. 45	43. 45	3. 34	·1040	2. 25	·02548	3. 40	61 ·1	61 ·0
7 2	43. 0	3. 54	·1042	2. 40	·02460	9. 40	63 ·0	63 ·5
8. 30	42. 30	4. 20	·1038	6. 13	·02268	21. 40	61 ·0	61 ·3
	***	4. 52	·1044	8. 13	·02142			
12. 15	43. 10	4. 55	·1041	10. 14	·02066			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June19		June19		June19				
h m	′	h m		h m		h m	°	°
13. 58	21. 42. 20	6. 30	·1044	10. 34	·02069			
14. 10	43. 0	6. 36	·1047	11. 15	·02030			
14. 36	42. 15	6. 51	·1047	12. 43	·02016			
15. 15	42. 45	6. 56	·1049	16. 0	·02104			
15. 45	41. 35	7. 5	·1045	17. 22	·02192			
15. 51	42. 20	7. 25	·1045	19. 16	·02277			
16. 12	41. 30	7. 48	·1050	21. 38	·02277			
17. 7	41. 0	8. 5	·1048	22. 26	·02257			
18. 18	38. 20	8. 18	·1047	23. 33	·02196			
19. 3	38. 30	8. 34	·1044	23. 57	·02148			
19. 9	38. 0	9. 30	·1044					
19. 17	38. 55	9. 50	·1041					
20. 13	39. 20	11. 50	·1042					
20. 20	41. 20	12. 6	·1045					
	***	12. 28	·1042					
20. 39	40. 10	12. 55	·1041					
	***	13. 5	·1043					
21. 45	41. 5		***					
22. 15	44. 30	14. 9	·1044					
	***	14. 37	·1047					
23. 43	47. 50	14. 45	·1043					
		14. 51	·1045					
		15. 0	·1040					
		15. 7	·1043					
		15. 9	·1041					
		15. 34	·1046					
		16. 0	·1044					
		16. 10	·1046					
		16. 37	·1045					
		16. 52	·1046					
		17. 45	·1043					
		20. 12	·1028					
		20. 45	·1019					
		21. 30	·1018					
		23. 35	·1025					
		23. 59	·1027					
June20		June20		June20		June20		
0. 56	21. 49. 30	0. 0	·1027	0. 20	·02130	1. 40	63 ·8	64 ·8
2. 17	50. 0	1. 5	·1023	1. 38	·02038	3. 40	66 ·0	67 ·0
4. 0	49. 0	1. 7	·1019	3. 0	·01840	9. 40	65 ·5	66 ·0
5. 2	47. 50	1. 32	·1017	3. 40	·01703	21. 40	60 ·8	62 ·0
6. 25	45. 5	1. 42	·1020	3. 48	·01682			
7. 40	43. 50	2. 18	·1019	3. 55	·01903			
10. 25	44. 0	2. 30	·1022	4. 23	·01790			
10. 48	43. 45	2. 37	·1021	4. 58	·01738			
14. 38	43. 30	2. 47	·1023	5. 40	·01717			
15. 13	42. 20	2. 54	·1022	7. 45	·01690			
15. 27	43. 50	3. 10	·1023	11. 15	·01830			
15. 44	43. 0	3. 27	·1021	14. 40	·02130			
16. 47	42. 20	4. 7	·1021	18. 15	·02597			
18. 2	42. 20	4. 22	·1027		·02558			
18. 46	43. 0	4. 35	·1021	19. 28	·02570			
19. 0	41. 40	4. 42	·1027	19. 43	·02544			
	***	4. 49	·1024	20. 0	·02562			
20. 17	40. 40	4. 52	·1027	22. 48	·02516			
	***	4. 58	·1023	23. 59	·02472			
23. 10	43. 0	5. 13	·1029					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 14, 15, 16, and 17. Horizontal Force. The Photographic Trace was too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June20		June20						
h m	° ′ ″	h m		h m		h m	°	°
23. 59	21. 46. 0	5. 30	·1030					
		5. 51	·1027					
		6. 0	·1024					
		6. 12	·1025					
		6. 17	·1025					
		6. 21	·1026					
		6. 25	·1025					
		6. 36	·1026					
		6. 50	·1025					
		7. 7	·1028					
		7. 22	·1027					
		7. 39	·1029					
		8. 20	·1025					
		10. 21	·1023					
		10. 36	·1026					
		10. 57	·1023					
		12. 20	·1028					
		12. 30	·1025					
		13. 37	·1030					
		14. 35	·1034					
		14. 52	·1033					
		15. 5	·1030					
		16. 30	·1034					
		16. 37	·1032					
		16. 57	·1031					
		18. 4	·1033					
		19. 30	·1028					
		20. 49	·1019					
		22. 8	·1013					
			***					
		23. 15	·1010					
June21		June21		June21		June21		
0. 0	21. 46. 5	0. 39	·1012	0. 22	·02590	1. 40	62 ·2	63 ·0
2. 7	51. 20	0. 52	·1009	0. 47	·02363	3. 40	63 ·0	63 ·0
6. 54	42. 55	1. 38	·1014	2. 52	·01992	9. 40	63 ·0	63 ·0
10. 0	45. 0		**	3. 30	·01917	23. 19	62 ·0	63 ·0
11. 40	44. 25	3. 55	·1024	4. 46	·01710			
12. 0	45. 30		***	4. 57	·01738			
12. 18	43. 30	4. 18	·1021	6. 22	·01700			
12. 32	43. 30		***	8. 15	·01657			
13. 2	46. 15	4. 53	·1028	10. 4	·01729			
13. 40	44. 55		***	14. 41	·01986			
14. 2	46. 20	6. 0	·1032	16. 51	·02138			
14. 45	41. 30	6. 40	·1026	19. 54	·02238			
15. 12	41. 35	7. 10	·1026	21. 30	·02218			
16. 2	39. 0	8. 25	·1032	23. 59	·02086			
16. 17	42. 10	8. 50	·1036					
16. 48	40. 30		***					
17. 3	41. 30	9. 32	·1033					
17. 47	39. 30	10. 5	·1031					
18. 23	40. 40	10. 22	·1030					
18. 40	38. 45	11. 0	·1033					
18. 49	40. 0	11. 7	·1031					
19. 4	40. 15	11. 51	·1039					
19. 12	38. 40	12. 5	·1044					
19. 25	40. 0	12. 25	·1038					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June21		June21						
h m	° ′ ″	h m		h m		h m	°	°
21. 9	21. 42. 0	12. 54	·1037					
22. 47	46. 0	13. 39	·1044					
23. 59	47. 25	13. 54	·1039					
		14. 21	·1044					
		14. 44	·1043					
		14. 46	·1040					
		15. 20	·1038					
		15. 51	·1039					
		16. 0	·1037					
		16. 16	·1039					
		16. 35	·1038					
		17. 7	·1044					
		17. 34	·1043					
		18. 2	·1038					
		19. 3	·1041					
		20. 19	·1030					
		21. 5	·1023					
		21. 37	·1018					
		22. 20	·1017					
		22. 35	·1021					
		22. 55	·1018					
		23. 36	·1023					
		23. 48	·1020					
		23. 59	·1020					
June22		June22		June22		June22		
0. 0	21. 47. 30	0. 0	·1020	0. 33	·02078	10. 59	64 ·0	65 ·0
	***	0. 8	·1015	2. 32	·01987	21. 40	61 ·0	61 ·3
1. 2	48. 5	1. 16	·1015	4. 28	·01772			
	***	2. 20	·1018	5. 6	·01673			
1. 30	47. 30	2. 49	·1016	5. 10	·01733			
	***	3. 34	·1018	6. 2	·01704			
3. 20	48. 20	3. 45	·1016	7. 39	·01728			
	***	4. 17	·1020	7. 58	·01710			
6. 0	46. 0	4. 24	·1027	10. 30	·01718			
	***	4. 40	·1021	11. 36	·01710			
8. 11	47. 10	5. 0	·1022	14. 2	·01884			
	***	5. 19	·1020	14. 36	·01953			
10. 2	42. 50	5. 28	·1035	18. 28	·02562			
	***	5. 35	·1026	19. 11	{ ·02637			
12. 1	45. 5	5. 45	·1022		{ ·02568			
12. 33	42. 0	5. 55	·1032	21. 11	·02583			
13. 58	45. 10	6. 3	·1043	23. 28	·02555			
15. 36	43. 45	6. 15	·1024	23. 59	·02537			
15. 45	44. 10	6. 55	·1026					
16. 15	42. 25	7. 5	·1030					
18. 10	42. 55	7. 19	·1026					
18. 16	44. 30	7. 25	·1039					
18. 40	43. 5	7. 43	·1032					
18. 57	44. 5	8. 7	·1034					
	***	8. 16	·1032					
20. 40	41. 30	8. 24	·1036					
	***	8. 40	·1028					
22. 43	46. 0	9. 48	·1030					
	***	9. 55	·1018					
23. 59	47. 0	10. 10	·1028					
		10. 21	·1024					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June22 h m		h m		h m	°	°
		10. 29	·1029					
		11. 50	·1026					
		12. 22	·1026					
		12. 42	·1032					
		12. 55	·1029					
		14. 30	·1031					
		15. 10	·1031					
		17. 30	·1035					
		18. 18	·1030					
		18. 22	·1032					
		18. 28	·1031					
		19. 15	·1034					
		20. 12	·1029					
		21. 19	·1028					
		22. 15	·1021					
		22. 30	·1016					
		23. 14	·1023					
		23. 24	·1021					
June23		June23		June23		June23		
0. 0	21. 47. 0	0. 4	·1022	1. 3	·02493	1. 40	62 ·4	64 ·6
1. 18	47. 50		***	3. 4	·02338	3. 40	64 ·0	65 ·0
1. 47	49. 30	1. 21	·1022	6. 11	·02056	9. 40	65 ·5	67 ·0
2. 37	49. 30	1. 32	·1028	6. 45	·01978	21. 40	61 ·0	61 ·3
3. 2	48. 15	1. 48	·1027	8. 43	·01822			
4. 40	48. 50	2. 0	·1019	10. 45	·01748			
	(†)	2. 15	·1022	11. 27	·01748			
5. 50	47. 30	2. 34	·1022	12. 18	·01778			
7. 11	45. 30	2. 45	·1026	14. 38	·01990			
8. 15	45. 30	3. 15	·1020	15. 40	·02130			
9. 14	42. 20	3. 33	·1026	18. 28	·02530			
9. 54	44. 25	3. 54	·1027	18. 30	·02475			
10. 27	42. 45	4. 22	·1031	19. 27	·02563			
11. 22	44. 30	4. 30	·1028	19. 34	·02537			
12. 40	44. 0	4. 37	·1037	21. 49	·02570			
12. 54	45. 0	4. 50	·1032	22. 4	·02539			
13. 30	45. 15	5. 51	·1033	22. 42	·02150			
13. 45	43. 30	5. 59	·1036	23. 28	·02110			
14. 47	43. 20	6. 4	·1035	23. 59	·02037			
15. 0	41. 50	6. 41	·1037					
15. 27	42. 0	6. 51	·1033					
15. 42	44. 0	7. 7	·1032					
16. 5	45. 0	7. 28	·1035					
16. 47	42. 35	7. 45	·1034					
	(†)	8. 5	·1037					
17. 53	43. 30	8. 35	·1035					
18. 38	43. 50	9. 11	·1023					
18. 58	42. 45	9. 45	·1028					
20. 27	42. 35	10. 46	·1031					
20. 39	42. 10	10. 57	·1028					
21. 7	42. 30	12. 51	·1031					
22. 40	46. 30	12. 55	·1034					
23. 59	47. 40	13. 11	·1035					
		13. 20	·1037					
		14. 54	·1037					
		15. 5	·1039					
		15. 44	·1035					
		16. 24	·1041					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June23 h m		h m		h m	°	°
		17. 37	·1039					
		17. 51	·1038					
		18. 17	·1041					
		18. 30	·1039					
		19. 30	·1044					
		21. 25	·1038					
		22. 30	·1030					
			(†)					
June24		June24		June24		June24		
0. 0	21. 47. 25	0. 30	·1024	0. 54	·01904	1. 40	64 ·0	65 ·0
	***	0. 48	·1023	1. 58	·01707	3. 40	67 ·0	67 ·0
3. 15	50. 50	1. 6	·1025	5. 54	·01801	9. 40	68 ·0	71 ·0
	***	3. 2	·1025	6. 15	·01790	21. 40	65 ·0	66 ·0
4. 50	50. 0	3. 21	·1028	7. 14	·01813			
	***	3. 27	·1031	8. 16	·01790			
8. 27	45. 0	3. 45	·1031	9. 57	·01804			
10. 15	45. 25	3. 51	·1028	11. 15	·01777			
12. 16	43. 30		***	13. 10	·01767			
12. 32	44. 30	4. 45	·1030	14. 6	·01820			
13. 0	44. 30		***	14. 41	·01870			
13. 17	45. 10	5. 40	·1023	16. 49	·02107			
16. 44	44. 55		***	19. 15	·02400			
19. 2	41. 40	10. 0	·1026	20. 39	·02507			
19. 45	41. 0		***	21. 44	·02550			
21. 10	41. 15	10. 16	·1030	23. 13	·02496			
	***		***	23. 53	·02452			
23. 59	47. 20	13. 25	·1032					
			***					
		14. 55	·1032					
			***					
		17. 22	·1039					
			***					
		19. 36	·1044					
		20. 52	·1034					
		21. 40	·1031					
		22. 45	·1022					
			***					
		23. 59	·1021					
June25		June25		June25		June25		
0. 0	21. 47. 20	0. 0	·1022	0. 0	·02421	1. 40	70 ·0	70 ·0
	***	0. 35	·1017	1. 47	·02127	3. 40	72 ·0	72 ·5
2. 0	50. 0	1. 0	·1019	3. 3	·01825	9. 40	73 ·0	74 ·0
	***	1. 10	·1014	3. 13	·01890	21. 40	69 ·0	70 ·0
4. 17	50. 0	1. 37	·1013	8. 0	·01873			
	***	2. 45	·1016	10. 54	·01849			
8. 5	46. 0	3. 7	·1019	12. 43	·01848			
8. 40	44. 30		***	14. 9	·01930			
	***	3. 49	·1014	15. 30	·02123			
13. 44	44. 30	4. 12	·1016	16. 36	·02310			
	***	4. 37	·1013	18. 17	·02706			
14. 11	45. 0		***	18. 27	·02652			
	***	5. 20	·1017	21. 46	·02731			
15. 8	44. 30	5. 35	·1014	23. 17	·02650			
	***	6. 0	·1014	23. 59	·02556			
15. 17	45. 20	6. 20	·1021					
	***		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
June 25	
h m	° ′ ″
16. 43	21. 43. 0
17. 3	44. 0
18. 0	42. 30
	***
21. 22	42. 10
	***
22. 15	43. 0
	***
23. 31	47. 50
23. 38	57. 20
23. 46	57. 40
23. 50	48. 10
23. 59	48. 30
June 26	
0. 0	21. 48. 35
2. 15	51. 5
4. 32	47. 35
5. 2	47. 30
5. 54	45. 50
6. 4	47. 10
8. 13	44. 45
8. 28	45. 50
8. 40	44. 0
9. 2	44. 35
10. 11	43. 0
10. 57	43. 0
11. 25	44. 35
11. 52	44. 20
12. 45	38. 45
12. 53	38. 45
13. 2	40. 50
13. 37	38. 50
13. 47	40. 50
14. 13	40. 30
14. 29	38. 15
14. 47	39. 0
15. 0	41. 5
15. 19	41. 5
16. 1	43. 40
17. 15	42. 35
18. 25	41. 0
18. 32	39. 30
18. 47	40. 35
19. 59	38. 0
20. 28	38. 30
21. 29 :	42. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 25	
h m	
7. 40	·1021
8. 3	·1023
9. 3	·1019
10. 8	·1021
11. 10	·1021
12. 7	·1023
12. 23	·1026
12. 55	·1022
13. 5	·1025
14. 0	·1023
15. 58	·1030
17. 27	·1032
17. 47	·1033
18. 37	·1037
18. 42	·1034
18. 50	·1035
19. 52	·1028
20. 12	·1028
20. 47	·1023
21. 41	·1021
22. 35	·1020
22. 50	·1021
23. 59	·1014
June 26	
0. 0	·1014
0. 7	·1015
0. 47	·1012
2. 7	·1013
2. 22	·1011
2. 55	·1009
3. 28	·1005
4. 5	·1004
4. 33	·1006
4. 44	·1008
5. 52	·1004
5. 57	·1021
6. 9	·1017
7. 10	·1025
7. 20	·1034
7. 49	·1042
	(†)
9. 40	·1034*
21. 40	·0997*

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
June 26	
1. 28	·02282
3. 13	·01845
3. 17	·01881
	·01920
3. 46	·01916
3. 54	·01824
5. 33	·01717
5. 49	·01726
6. 0	·01718
	·01534
7. 8	·01460
7. 17	·01474
7. 47	·01440
	·01464
8. 7	·01430
8. 18	·01457
9. 50	·01494
11. 26	·01564
14. 38	·01952
16. 10	·02261
16. 34	·02218
17. 26	·02237
19. 18	·02213
20. 15	·02230
20. 56	·02255
21. 11	·02259
22. 20	·02137
23. 21	·01940

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
June 26		
1. 40	73 ·0	73 ·3
3. 40	75 ·6	77 ·0
9. 40	78 ·0	79 ·0
21. 40	74 ·0	75 ·0

Göttingen Mean Solar Time.	Western Declination.
June 26	
h m	° ′ ″
23. 2 :	21. 46. 35
23. 59	47. 25
June 27	
0. 0	21. 47. 30
	***
1. 5	48. 40
	***
1. 34	51. 0
	***
2. 10	51. 30
	***
3. 23	49. 55
	***
6. 11	43. 35
6. 32	38. 20
6. 49	37. 15
7. 15	40. 10
	***
11. 14	42. 30
	***
12. 47	37. 0
	***
13. 27	42. 15
13. 53	38. 45
	***
14. 27	41. 5
	***
15. 22	40. 10
	***
16. 15	43. 0
	***
17. 2	43. 10
	***
18. 39	40. 30
18. 48	41. 50
19. 2	40. 30
	***
22. 28	44. 0
23. 59	46. 45
June 28	
0. 0	21. 46. 45
1. 36	48. 0
	***
3. 50	43. 10
6. 45	39. 50
	***
9. 2	42. 30
	***
12. 56	43. 30
	***
15. 47	42. 15
17. 27	38. 40
20. 40	36. 40
21. 17	37. 15
22. 2	41. 5
22. 14	40. 55

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 27	
0. 0	·1000
	***
1. 11	·0998
	***
2. 7	·1005
	***
6. 0	·1014
	***
6. 39	·1010
	***
7. 15	·1016
	***
8. 19	·1010
	***
10. 5	·1018
	***
11. 33	·1016
	***
12. 45	·1034
	***
12. 50	·1026
	***
14. 0	·1030
	***
15. 55	·1027
	***
16. 37	·1030
18. 5	·1031
18. 10	·1034
18. 25	·1030
19. 0	·1030
19. 28	·1036
22. 50	·1017
23. 59	·1025
June 28	
0. 0	·1025
	***
1. 20	·1026
	***
2. 16	·1021
	***
3. 30	·1023
	***
5. 37	·1031
	***
6. 5	·1031
	***
6. 37	·1037
	***
7. 19	·1032
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 27	
h m	
0. 10	·01953
2. 24	·01436
2. 30	·01472
3. 26	·01477
4. 10	·01496
6. 11	·01436
6. 17	·01492
6. 41	·01470
7. 0	·01469
7. 31	·01436
8. 7	·01410
9. 31	·01436
10. 35	·01491
11. 18	·01562
13. 18	·01800
15. 0	·02178
	·02110
16. 21	·02136
16. 45	·02122
17. 16	·02120
17. 39	·02094
19. 58	·02068
21. 30	·02061
22. 29	·02086
June 28	
23. 22	·02050
23. 36	·02026
0. 3	·02000
1. 30	·01837
3. 22	·01593
3. 48	·01500
5. 0	·01283
5. 31	·01196
	·01237
7. 49	·01164
8. 25	·01190
9. 40	·01349
11. 6	·01584
11. 52	·01764
12. 40	·02080
	·01970
13. 52	·02010
15. 14	·01979

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
June 27		
1. 40	77 ·5	78 ·0
3. 40	79 ·4	79 ·4
9. 40	81 ·0	81 ·0
21. 40	69 ·0	70 ·5
June 28		
1. 40	71 ·3	72 ·5
3. 40	75 ·0	75 ·0
9. 40	71 ·5	72 ·0
23. 5	65 ·0	66 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 28	° ′ ″	June 28		June 28		h m	°	°
h m		h m		h m				
22. 33	21. 41. 55	7. 22	·1029	18. 30	·01972			
23. 59	44. 0		***	18. 52	·01956			
		7. 35	·1028	21. 24	·01951			
			***	22. 30	·01989			
		8. 30	·1021	23. 38	·01958			
			***					
		9. 5	·1022					
			***					
		9. 35	·1019					
			***					
		9. 48	·1021					
			***					
		11. 54	·1029					
			***					
		13. 21	·1025					
			***					
		14. 10	·1017					
			***					
		15. 5	·1021					
			***					
		16. 55	·1024					
			***					
		17. 30	·1027					
			***					
		18. 35	·1026					
			***					
		19. 52	·1021					
			***					
		20. 25	·1019					
			***					
		20. 44	·1014					
			***					
		22. 13	·1009					
			***					
		22. 18	·1013					
			***					
		22. 25	·1009					
			***					
		23. 0	·1007					
			***					
		23. 32	·1013					
			***					
		23. 59	·1014					
June 29		June 29		June 29		June 29		
0. 0	21. 44. 15	0. 0	·1014	0. 0	·01851	9. 10	70 ·3	72 ·0
1. 0	43. 45		***	0. 30	·01764	21. 40	62 ·0	63 ·0
1. 30	44. 20	3. 5	·1013	1. 47	·01517			
	***		***					
4. 16	43. 30	4. 22	·1013	3. 29	{·01104			
	***		***		{·01150			
				6. 18	·01148			
6. 24	39. 30	5. 21	·1008	7. 14	{·01130			
	***		***		{·01148			
6. 53	40. 0	5. 52	·1012	8. 12	{·01128			
	***	6. 25	·1008		{·01157			
9. 46	39. 30	7. 0	·1012	9. 36	·01106			
	***	8. 12	·1012	10. 28	·01122			
10. 13	40. 20	8. 24	·1016	10. 55	·01152			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 29	° ′ ″	June 29		June 29		h m	°	°
h m		h m		h m				
10. 46	21. 39. 30	8. 30	·1012	12. 37	·01473			
	***		***	14. 15	·01814			
11. 17	40. 30	11. 50	·1023	15. 22	·02042			
	***		***	15. 30	·01941			
12. 44	37. 50	12. 39	·1038	18. 33	·01937			
	***		***	20. 10	·01952			
13. 15	39. 0	13. 3	·1035	20. 43	·01972			
	***		***	21. 22	·01970			
13. 45	38. 0	14. 45	·1034	23. 0	·01862			
	***		***	23. 45	·01707			
14. 54	39. 20	18. 20	·1038					
	***		***					
16. 11	39. 0	20. 47	·1033					
	***		***					
18. 12	36. 30	22. 54	·1016					
	***		***					
19. 48	38. 0	23. 59	·1020					
	***							
20. 18	37. 30							
21. 32	41. 5							
23. 57	44. 20							
June 30		June 30		June 30		June 30		
0. 13	21. 47. 35	0. 0	·1020	0. 12	·01592	1. 40	69 ·0	69 ·3
1. 0	47. 10	1. 14	·1020	2. 4	·01106	3. 40	71 ·0	71 ·4
2. 18	47. 30	1. 53	·1011	2. 11	·01171	9. 40	69 ·0	70 ·5
2. 55	46. 35		***	2. 38	·01160	21. 40	61 ·7	62 ·0
4. 0	46. 35	3. 4	·1013	3. 20	{·01210			
	***		***		{·01248			
5. 43	43. 40	3. 40	·1018	4. 24	·01233			
	***			5. 17	·01194			
7. 35	43. 10	4. 5	·1011	5. 44	·01163			
	***		***	8. 2	·01133			
11. 27	45. 50	5. 21	·1017	8. 39	·01137			
	***		***	9. 10	·01159			
11. 56	44. 30	5. 47	·1013	10. 17	·01260			
	***		***	11. 11	·01356			
12. 55	44. 10	7. 52	·1024	14. 9	·01821			
	***		***	15. 13	·02043			
13. 18	45. 5	12. 48	·1028	15. 16	·01950			
	***		***	17. 22	·01958			
15. 37	44. 30	13. 7	·1034	18. 51	·01938			
	***		***	19. 47	·01906			
16. 49	44. 55	15. 9	·1029	20. 48	·01907			
	***	16. 10	·1029	22. 29	·01969			
17. 46	41. 20	17. 22	·1031	23. 4	·01970			
	***	19. 15	·1025	23. 41	·01959			
20. 12	42. 5	20. 0	·1019					
21. 28	40. 40	21. 52	·1014					
23. 27	46. 20	23. 24	·1013					
July		July 1		July 1		July 1		
1. 40	21. 45. 20*	1. 40	·1018*	0. 3	·01890	1. 40	66 ·0	66 ·2
3. 40	42. 42*	3. 40	·1017*	1. 24	·01737	3. 40	69 ·0	69 ·4
9. 40	39. 30*	9. 40	·1014*	3. 49	·01273	9. 40	67 ·0	69 ·0
21. 40	35. 44*	21. 40	·1021*	4. 48	·01112	21. 40	60 ·0	60 ·7
				5. 36	·01050			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

July 1, 2, and 3. The time-piece which drives the Declination and Horizontal Force cylinder was under repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		July 1 h m		h m	°	°
				6. 0	·01120			
				7. 15	·01100			
				8. 43	·01024			
				9. 15	·01030			
				10. 19	·01102			
				13. 47	·01644 (†)			
				15. 46	·01829			
				16. 48	·01849			
				18. 19	·01833			
				19. 50	·01830			
				22. 0	·01892			
				23. 0	·01868			
				23. 36	·01803			
July 2		July 2		July 2		July 2		
1. 40	21. 43. 8*	1. 40	·1016*	0. 0	·01772	1. 40	63 ·9	65 ·2
3. 40	43. 9*	3. 40	·1039*	1. 50	·01452	3. 40	67 ·0	67 ·4
9. 40	38. 22*	9. 40	·1024*	3. 7	·01160	9. 40	66 ·0	69 ·0
21. 40	37. 44*	21. 40	·1016*	3. 49	·01040	21. 40	60 ·0	60 ·0
				4. 12	·00993			
				4. 15	·01080			
				6. 16	·01069			
				7. 29	·01038			
				9. 2	·00980			
				10. 6	·01050			
				11. 7	·01180			
				15. 43	·01884			
				15. 52	·01893 / ·01820			
				18. 32	·01827			
				19. 43	·01818			
				20. 13	·01818			
				22. 11	·01870			
				22. 52	·01858			
				23. 31	·01773			
July 3		July 3		July 3		July 3		
1. 40	21. 46. 59*	1. 40	·1016*	0. 0	·01746	1. 40	63 ·8	64 ·2
3. 40	49. 27*	3. 40	·1018*	1. 0	·01637	3. 40	66 ·0	66 ·0
9. 40	44. 30*	9. 40	·1020*	2. 9	·01435	9. 40	67 ·0	68 ·0
21. 40	41. 13*	21. 40	·1024*	4. 12	·00957	21. 40	59 ·0	59 ·0
				7. 15	·01050			
				9. 45	·00976			
				10. 40	·01030			
				12. 36	·01286			
				13. 19	·01427			
				15. 28	·01870 / ·01810			
				22. 59	·01747			
				23. 59	·01628			
July 4		July 4		July 4		July 4		
0. 27	21. 46. 30	0. 37	·1015	0. 24	·01570	1. 40	64 ·0	65 ·0
1. 45:	48. 20 ***	1. 7	·1015	1. 32	·01367	3. 40	67 ·0	68 ·0
		1. 52	·1014	3. 13	·00952 / ·01020	9. 40	69 ·0	70 ·0
4. 15	47. 30	1. 56	·1012			21. 40	62 ·5	63 ·0
6. 28	43. 0	3. 55	·1016	5. 15	·01067			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 4 h m	° ′ ″	July 4 h m		July 4 h m		h m	°	°
8. 41	21. 42. 30	4. 10	·1016	6. 25	·01028			
9. 0	41. 45	4. 40	·1014	8. 14	·01013			
9. 58	42. 30	5. 30	·1016	8. 36	·01030			
10. 18	41. 0	6. 52	·1019	9. 9	·01012			
10. 54	42. 15	9. 12	·1012	10. 43	·01014			
12. 40	43. 5 ***	10. 55	·1010	11. 32	·01040			
		12. 23	·1015	13. 41	·01270			
16. 17	43. 10 ***	14. 4	·1022	18. 28	·01950 / ·01842			
		16. 22	·1028					
16. 45	43. 0 ***	17. 12	·1027	21. 13	·01856			
		18. 53:	·1031	23. 0	·01873			
17. 33	44. 0	20. 30	·1026	23. 59	·01837			
21. 10	38. 40	22. 3	·1018					
23. 2:	44. 10	23. 59	·1015					
23. 59	45. 0							
July 5		July 5		July 5		July 5		
0. 0	21. 45. 0	0. 0	·1015	0. 24	·01773	1. 40	66 ·0	66 ·5
1. 52	48. 15	2. 20	·1021	3. 9	·01510	3. 40	68 ·0	68 ·0
3. 47	47. 55	4. 0	·1022	5. 15	·01206	9. 40	69 ·5	70 ·0
7. 40	42. 15	4. 58	·1018	6. 47	·01023 / ·01104	22. 15	65 ·0	66 ·0
9. 25	42. 40 ***	5. 9	·1016					
		5. 20	·1018 ***	10. 30	·01056			
11. 8	44. 5 ***			11. 24	·01072			
		7. 0	·1020 ***	14. 15	·01382			
11. 45	43. 0 ***			15. 22	·01828			
		7. 32	·1024 ***	18. 13	·01900 / ·01872			
12. 27	44. 0							
16. 8	42. 55	8. 30	·1022	19. 27	·01856			
17. 47	41. 30	9. 7	·1023	20. 41	·01882			
19. 2	41. 40	10. 40	·1021	23. 22	·01860			
21. 35	42. 15	10. 52	·1025					
23. 29	44. 30	11. 12	·1020					
		14. 10	·1020					
		15. 7	·1027					
		15. 50	·1030					
		16. 25	·1032					
		16. 55	·1037					
		19. 25	·1041 (†)					
		21. 52	·1022					
		22. 7	·1020					
		22. 22	·1015					
		23. 59	·1016					
July 6		July 6		July 6		July 6		
0. 2	21. 46. 45	0. 0	·1016 ***	0. 0	·01798	9. 40	71 ·5	73 ·0
0. 54	48. 35			0. 59	·01707	21. 40	63 ·0	64 ·3
1. 18	48. 55	4. 0	·1000 ***	1. 34	·01604			
2. 46	47. 55			3. 47	·01122 / ·01190			
3. 44	46. 25	7. 35	·1009					
4. 15	46. 20 ***	8. 27:	·1011	5. 43	·01142			
		10. 0	·1018 ***	6. 26	·01136			
6. 48	43. 40 ***			7. 32	·01086			
		14. 27	·1031	9. 0	·01073			
8. 30	43. 0 ***	14. 33	·1024	10. 4	·01116			
		14. 37	·1032	11. 18	·01210			
11. 43	44. 30 ***	17. 30	·1040	12. 12	·01311			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 6		July 6		July 6				
h m	° ′ ″	h m		h m		h m	°	°
14. 36	21. 44. 35	19. 40	·1042	13. 12	·01457			
15. 26	44. 20	20. 6	·1040	14. 44	·01730			
16. 5	44. 20		(†)	15. 40	·01912			
16. 39	42. 40	21. 40	·1020*		·01850			
17. 12	42. 40			17. 57	·01866			
17. 41	41. 15			18. 29	·01857			
18. 0	41. 20			20. 8	·01860			
18. 30	40. 0			21. 30	·01872			
19. 17	38. 55			23. 59	·01840			
21. 31	41. 40							
23. 59	47. 5							
July 7		July 7		July 7		July 7		
0. 0	21. 47. 15		(†)		(†)	1. 40	64 ·6	65 ·0
0. 35	50. 50	1. 47	·1018	1. 1	·01847	3. 40	64 ·6	65 ·0
1. 35	53. 40			2. 18	·01866	9. 40	64 ·5	66 ·0
	***	3. 8	·1037		·01898	21. 40	57 ·4	59 ·0
4. 33	52. 15	3. 20	·1033	2. 49	·01843			
8. 2	46. 45	3. 31	·1035	5. 13	·01870			
8. 30	47. 30	3. 54	·1027	6. 7	·01860			
9. 6	45. 30	4. 36	·1046	7. 55	·01857			
9. 39	43. 20	5. 4	·1034	8. 30	·01840			
10. 2	42. 50	5. 19	·1044	9. 17	·01864			
10. 17	44. 30	5. 47	·1036	14. 9	·01837			
10. 47	43. 25	6. 33	·1048	14. 55	·01816			
11. 10	45. 5	7. 10	·1045	17. 20	·01820			
	***	8. 52	·1047	19. 28	·01747			
13. 16	44. 30	9. 40	·1046	21. 52	·01740			
	***	9. 57	·1050	22. 7	·01637			
13. 49	46. 0	10. 51	·1042	22. 54	·01670			
14. 7	44. 20	11. 3	·1047	23. 13	·01660			
	***	11. 18	·1041	23. 46	·01700			
14. 16	45. 45	13. 47	·1045					
	***	14. 30	·1041					
15. 15	45. 25	15. 45	·1039					
	***	16. 52	·1044					
15. 37	45. 50	17. 28	·1033					
	***	18. 33	·1044					
16. 43	44. 30	20. 15	·1040					
	***	22. 30	·1031					
17. 13	45. 15	23. 17	·1028					
	***	23. 59	·1036					
18. 11	52. 10							
	***							
18. 40	51. 0							
	***							
19. 43	43. 30							
	***							
20. 12	43. 0							
	***							
20. 40	45. 10							
	***							
21. 16	43. 50							
	***							
22. 55	47. 0							
	***							
23. 59	46. 15							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 8		July 8		July 8		July 8		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 40. 15	0. 0	·1036	0. 7	·01660	1. 40	58 ·0	59 ·0
2. 4	51. 0	0. 12	·1034	3. 55	·01735	3. 40	58 ·0	58 ·0
4. 5	49. 5	0. 28	·1037	6. 18	·01737	9. 40	59 ·0	59 ·0
4. 22	50. 0	0. 50	·1030	10. 43	·01650	21. 40	56 ·0	56 ·0
4. 42	48. 50	3. 5	·1044	11. 40	·01642			
5. 43	47. 10	3. 30	·1042	12. 28	·01550			
8. 13	45. 0	5. 45	·1050	12. 53	·01556			
8. 47	45. 45	5. 57	·1051	14. 24	·01620			
9. 18	41. 0	4. 12	·1045	15. 29	·01670			
9. 47	40. 20	4. 47	·1043	16. 38	·01691			
10. 3	42. 15	5. 19	·1046	17. 41	·01737			
10. 34	41. 20	5. 26	·1042		·01662			
11. 15	42. 30	5. 38	·1044	19. 0	·01691			
11. 31	43. 50	5. 47	·1038	19. 21	·01678			
11. 37	47. 0	6. 6	·1038		·01470			
11. 46	46. 20	6. 16	·1042	20. 55	·01567			
11. 56	49. 35	6. 28	·1043	21. 35	·01580			
12. 37	41. 10	6. 34	·1046	22. 32	·01621			
12. 57	41. 35	6. 49	·1046	23. 33	·01559			
13. 36	38. 35	6. 58	·1050	23. 59	·01560			
15. 6	43. 40	7. 27	·1042					
16. 45	44. 45	7. 54	·1048					
	***	8. 20	·1042					
18. 6	40. 0	8. 25	·1046					
18. 16	41. 0	8. 44	·1044					
18. 35	39. 10	8. 52	·1048					
	***	9. 7	·1038					
19. 32	39. 30	10. 5	·1044					
	***	10. 21	·1042					
20. 35	42. 0	10. 36	·1037					
20. 48	41. 0	10. 52	·1040					
	***	11. 0	·1040					
22. 20	41. 20	11. 25	·1046					
22. 30	43. 30	11. 34	·1038					
23. 59	45. 30	11. 51	·1060					
		12. 17	·1049					
		12. 28	·1050					
		13. 22	·1036					
		15. 26	·1038					
		15. 52	·1035					
		16. 28	·1037					
		16. 52	·1036					
		17. 20	·1040					
		17. 28	·1036					
		17. 46	·1036					
		18. 30	·1034					
		18. 52	·1037					
		21. 0	·1023					
		21. 37	·1028					
		21. 45	·1026					
		22. 27	·1028					
		22. 45	·1024					
		23. 27	·1021					
		23. 55	·1020					
July 9		July 9		July 9		July 9		
0. 0	21. 45. 30	0. 12	·1024	0. 48	·01521	1. 40	60 ·0	60 ·0
0. 43	47. 5	0. 43	·1025	2. 0	·01390	3. 40	62 ·0	62 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
July 9	
h m	° ′ ″
1. 3	21. 48. 0
3. 53	47. 30
4. 32	46. 20
	(†)
8. 43	44. 45
10. 6	43. 40
11. 15	45. 0
12. 15	44. 0
13. 15	44. 15
13. 42	46. 0
14. 20	43. 10
15. 28	43. 0
16. 17	44. 5
17. 7	42. 0
17. 20	43. 0
17. 54	41. 30
18. 21	40. 45
18. 37	41. 30
19. 25	42. 50
19. 48	41. 10
20. 5	42. 25
20. 47	42. 30
21. 3	43. 10
21. 25	41. 50
21. 45	44. 15
	***
23. 59	46. 40
July 10	
0. 0	21. 46. 45
0. 36	47. 50
0. 47	47. 15
1. 18	48. 0
1. 34	47. 30
1. 57	48. 30
	***
4. 8	47. 30
4. 24	46. 5
4. 42	47. 10
5. 40	45. 30
7. 5	45. 0
8. 0	43. 30
8. 10	43. 40
8. 42	41. 5
9. 43	43. 0
10. 40	38. 35
11. 14	41. 20
11. 40	39. 20
12. 29	43. 0
13. 20	41. 50
14. 13	43. 30
14. 32	43. 0
14. 48	45. 20
15. 53	42. 0
16. 0	42. 50
16. 23	41. 5
16. 35	43. 40
16. 47	42. 30
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 9	
h m	
0. 52	·1028
1. 30	·1019
2. 55	·1025
	(†)
3. 40	·1026
9. 50	·1034
10. 51	·1031
14. 16	·1042
14. 52	·1038
15. 50	·1040
16. 12	·1040
16. 24	·1044
17. 27	·1037
17. 52	·1039
18. 44	·1030
19. 7	·1035
19. 45	·1032
20. 0	·1033
20. 33	·1023
21. 30	·1016
21. 49	·1016
21. 52	·1019
21. 57	·1018
22. 52	·1018
23. 30	·1012
23. 59	·1011
July 10	
0. 0	·1011
0. 39	·1014
0. 52	·1018
1. 33	·1013
1. 52	·1025
2. 26	·1015
3. 22	·1024
3. 49	·1020
4. 14	·1010
	***
4. 28	·1020
	***
4. 43	·1013
5. 9	·1016
5. 28	·1012
5. 56	·1013
6. 5	·1016
6. 27	·1014
6. 42	·1018
7. 35	·1014
7. 51	·1019
8. 26	·1015
8. 52	·1018
9. 45	·1016
10. 7	·1018
10. 27	·1011
11. 5	·1018
11. 30	·1009
12. 40	·1015

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
July 9	
h m	
2. 56	·01220
3. 40	·00920*
9. 40	·00722*
9. 52	·00737
10. 57	·00772
11. 0	·00790
13. 56	·00797
15. 22	·00868
16. 25	·00972
18. 25	·01240
20. 21	·01510
20. 56	·01566
21. 43	·01606
23. 5	·01569
23. 43	·01500
uly 10	
0. 18	·01476
1. 40	·01252
2. 59	·00912
3. 19	·00782
5. 21	·01057
5. 53	·01057
8. 4	·01080
9. 8	·01067
11. 12	·01038
14. 0	·01113
14. 55	·01207
18. 45	·01650
20. 15	·01828
21. 17	·01896
22. 16	·01928
23. 32	·01890

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
July 9		
h m		
9. 40	63 ·0	64 ·0
21. 40	60 ·8	64 ·8
July 10		
1. 40	64 ·0	64 ·0
3. 40	61 ·7	62 ·0
9. 40	70 ·0	70 ·0
21. 40	64 ·4	65 ·0

Göttingen Mean Solar Time.	Western Declination.
July 10	
h m	° ′ ″
18. 27	21. 39. 30
18. 58	41. 0
19. 20	42. 50
	***
20. 10	42. 30
	***
20. 51	37. 55
21. 10	41. 5
	***
21. 40	40. 30
23. 59	46. 55
July 11	
0. 0	21. 47. 0
	***
1. 7	48. 30
	***
3. 32	48. 40
4. 55	45. 10
10. 39	45. 0
11. 47	44. 30
12. 0	43. 30
12. 57	43. 35
13. 12	42. 25
13. 31	42. 30
13. 57	44. 20
14. 40	42. 40
15. 20	45. 15
	***
17. 0	43. 10
	***
20. 38	42. 15
	***
22. 33	44. 5
	***
23. 59	47. 45

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 10	
h m	
12. 52	·1018
13. 22	·1017
14. 0	·1021
14. 23	·1023
14. 52	·1020
15. 55	·1024
16. 12	·1023
16. 24	·1025
16. 44	·1021
17. 35	·1034
18. 7	·1034
18. 37	·1029
19. 7	·1028
19. 45	·1015
	***
20. 27	·1013
	***
20. 52	·1016
21. 7	·1020
21. 54	·1018
22. 12	·1018
	***
23. 0	·1018
23. 55	·1016
23. 59	·1017
July 11	
0. 0	·1017
0. 6	·1016
0. 25	·1016
	***
1. 13	·1021
1. 51	·1021
2. 4	·1024
2. 14	·1030
2. 28	·1027
3. 15	·1023
3. 36	·1028
3. 43	·1019
	***
4. 40	·1019
	***
5. 0	·1023
	***
5. 12	·1023
	***
5. 52	·1018
	***
6. 7	·1022
	***
6. 30	·1018
	***
6. 52	·1021
	***
7. 30	·1022
	***
7. 43	·1030
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
July 11	
h m	
0. 0	·01878
0. 32	·01857
2. 28	·01630
5. 6	·01333
6. 18	·01103
	·01170
9. 0	·01092
9. 8	·01109
10. 44	·01090
11. 18	·01093
13. 26	·01250
14. 43	·01390
16. 18	·01580
17. 0	·01702
19. 44	·02080
	·01903
23. 17	·01936
23. 48	·01910

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
July 11		
h m		
1. 40	66 ·0	66 ·2
3. 40	68 ·0	68 ·0
9. 40	67 ·8	67 ·2
21. 40	65 ·2	66 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	July 11 h m		h m		h m		
		7. 52	·1026 ***					
		11. 21	·1020 ***					
		11. 30	·1027 ***					
		14. 30	·1027 ***					
		15. 44	·1026 ***					
		17. 52	·1032 ***					
		20. 37	·1027 ***					
		23. 59	·1014					
July 12		July 12		July 12		July 12		
0. 0	21. 47. 45	0. 0	·1014 ***	0. 12	·01902	1. 40	67 ·0	67 ·4
1. 2	50. 20			1. 13	·01881	3. 40	68 ·0	68 ·4
2. 30	47. 0	0. 57	·1017 ***	3. 56	·01673	9. 40	68 ·5	69 ·0
4. 0	46. 50			4. 4	·01560	23. 13	63 ·0	64 ·0
4. 31	46. 5	3. 13	·1030 ***	4. 22	·01543			
5. 16	46. 45				·01496			
5. 47	45. 40	4. 22	·1026 ***	5. 41	·01437			
6. 5	46. 40			7. 10	·01337			
6. 55	46. 45	5. 26	·1014 ***	9. 9	·01331			
9. 46	44. 50			9. 55	·01337			
10. 16	42. 20	5. 40	·1018 ***	10. 58	·01328			
10. 45	45. 0			14. 16	·01437			
11. 0	44. 30	5. 52	·1016 ***	15. 32	·01526			
11. 16	45. 30			17. 9	·01718			
11. 33	44. 10 ***	7. 15	·1023 ***	17. 22	·01724			
				18. 9	·01822			
13. 55	44. 10	9. 50	·1022 ***	18. 55	·01866			
14. 17	43. 45				·01837			
16. 30	44. 55	10. 0	·1020 ***	21. 35	·01837			
16. 47	43. 30			23. 33	·01847			
17. 30	42. 40	10. 22	·1026 ***					
17. 42	43. 10 ***							
		12. 15	·1022					
18. 47	42. 20 ***	12. 30	·1025					
		13. 12	·1028					
19. 17	40. 45 ***	16. 15	·1026					
		17. 0	·1027					
20. 13	40. 50	18. 5	·1024					
20. 39	39. 30	18. 45	·1026					
21. 18	40. 55	20. 0	·1022					
22. 55	43. 30	20. 58	·1021					
23. 59	48. 0	22. 44	·1013					
		23. 59	·1011					
July 13		July 13		July 13		July 13		
0. 0	21. 48. 0	0. 0	·1011	0. 0	·01820	8. 0	68 ·0	68 ·5
0. 10	48. 0	0. 22	·1015	0. 56	·01762	21. 40	64 ·0	64 ·2
0. 20	49. 30 ***	0. 45	·1009	1. 15	·01732			
		1. 28	·1015	2. 0	·01692			
1. 18	49. 30 ***	1. 51	·1015	3. 7	·01590			
		2. 10	·1022	3. 46	·01512			
1. 45	48. 5	2. 30	·1025	4. 43	·01383			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 13		July 13		July 13				
h m	° ′ ″	h m		h m		h m	°	
2. 17	21. 47. 50	3. 7	·1030	5. 45	·01193			
2. 58	48. 50	3. 14	·1038	6. 56	·01006			
3. 9	50. 0	4. 0	·1015	7. 41	·00940			
3. 23	48. 40	4. 9	·1018		·01010			
4. 42	47. 35	4. 44	·1015	9. 43	·00957			
7. 26	46. 15	5. 10	·1016	12. 13	·01010			
8. 11	43. 0	5. 50	·1015	14. 2	·01136			
8. 24	43. 55	6. 30	·1023	17. 12	·01426			
8. 32	42. 20	6. 40	·1028	19. 43	·01662			
8. 40	43. 5	7. 10	·1023	21. 43	·01750			
12. 4	44. 40	7. 21	·1023	22. 27	·01748			
12. 38	43. 30	7. 30	·1018	23. 55	·01672			
12. 54	45. 0	8. 14	·1034					
13. 28	44. 30	8. 34	·1032					
13. 40	46. 30	8. 37	·1036					
13. 49	46. 30	8. 59	·1030					
14. 15	44. 20	10. 18	·1022					
14. 36	45. 30	12. 57	·1028					
14. 59	45. 30	13. 30	·1027					
15. 31	48. 20	13. 58	·1035					
16. 33	47. 20	14. 52	·1030					
16. 52	44. 20	15. 35	·1031					
17. 41	40. 40 ***	16. 5	·1032					
		16. 24	·1034					
20. 3	41. 20	16. 37	·1037					
21. 47	43. 20	17. 7	·1034					
23. 59	50. 20	19. 0	·1031					
		20. 30	·1022					
		21. 59	·1021					
		23. 59	·1011					
July 14		July 14		July 14		July 14		
0. 0	21. 50. 30	0. 0	·1011	1. 46	·01645	1. 40	66 ·0	66 ·2
1. 15	51. 40	0. 12	·1009	2. 51	·01522	3. 40	66 ·5	67 ·0
3. 10	47. 50	0. 36	·1021	3. 48	·01416	9. 40	69 ·0	69 ·0
3. 48	48. 0	1. 10	·1028	6. 22	·01056	21. 40	66 ·0	66 ·5
4. 0	46. 50	1. 34	·1024	6. 58	·01198			
5. 0	44. 50	2. 52	·1046		·01356			
5. 31	44. 50	3. 2	·1042	8. 3	·01018			
5. 52	44. 20	3. 9	·1050	9. 35	·01016			
8. 40	45. 30	3. 19	·1033	10. 2	·01034			
9. 33	44. 15	3. 40	·1040	11. 26	·01018			
10. 56	45. 20	3. 51	·1025	14. 52	·01086			
12. 20	44. 0	4. 12	·1031	17. 7	·01256			
12. 41	44. 55	4. 37	·1026	18. 40	·01397			
13. 10	43. 30	5. 30	·1032	19. 50	·01510			
13. 40	46. 10	5. 50	·1032	21. 11	·01598			
13. 55	42. 55	6. 14	·1025	22. 43	·01576			
14. 30	44. 30	6. 45	·1024	23. 48	·01527			
14. 58	41. 10	6. 54	·1028					
15. 13	42. 20	7. 11	·1024					
16. 6	42. 30	7. 29	·1028					
16. 13	40. 30	7. 40	·1027					
16. 38	42. 20	8. 28	·1024					
16. 44	44. 0	10. 36	·1028					
17. 2	40. 20	10. 52	·1033					
17. 18	42. 20	12. 28	·1030					
18. 29	43. 30	12. 37	·1033					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. reduced for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. reduced for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
July 14		July 14				July 15		
h m	° ′ ″	h m		h m		h m	°	°
18. 49	21. 45. 20	12. 45	·1023			1. 40	67·0	67·0
19. 14	45. 30	13. 10	·1032			3. 40	69·0	69·3
20. 18	42. 15	13. 22	·1030			9. 40	73·0	73·0
21. 15	41. 30	14. 17	·1031			21. 40	70·2	67·0
22. 35	42. 35	14. 44	·1037					
23. 36	46. 5	14. 52	·1032					
23. 59	48. 30	15. 52	·1032					
		16. 0	·1038					
		16. 7	·1032					
		16. 30	·1032					
		16. 36	·1037					
		16. 54	·1029					
		17. 4	·1032					
		18. 14	·1022					
		18. 30	·1019					
		19. 15	·1024					
		19. 52	·1026					
		23. 25	·1021					
		23. 45	·1019					
July 15		July 15		July 15		July 15		
0. 0	21. 48. 30	0. 33	·1019	0. 10	·01442	1. 40	67·0	67·0
0. 17	50. 15	2. 30	·1027	2. 0	·01430	3. 40	69·0	69·3
2. 29	53. 30	2. 51	·1022	2. 51	·01402	9. 40	73·0	73·0
3. 9	52. 30	3. 15	·1011	3. 28	·01284	21. 40	70·2	67·0
3. 20	50. 20	3. 36	·1028	4. 21	·01278			
4. 0	50. 20	4. 22	·1018	4. 32	·01160			
5. 40	46. 15	5. 15	·1027	4. 45	·01161			
7. 10	46. 0	5. 38	·1022	5. 17	·01141			
7. 27	46. 15	5. 52	·1024	5. 23	·01200			
8. 0	45. 55	6. 4	·1018	5. 46	·01177			
12. 30	45. 55	6. 34	·1022	6. 15	·01152			
12. 43	44. 45	7. 0	·1020	8. 24	·01119			
13. 13	46. 0	7. 22	·1022	10. 36	·01118			
14. 18	43. 50	8. 12	·1020	11. 27	·01080			
16. 0	44. 30	8. 40	·1022	14. 20	·01175			
16. 13	45. 55	9. 20	·1020	15. 14	·01208			
16. 27	45. 0	12. 13	·1022	17. 3	·01480			
16. 42	46. 30	12. 40	·1030	18. 35	·01746			
17. 0	44. 30	15. 14	·1028	19. 45	·01882			
18. 47	42. 0	16. 37	·1032	20. 26	·01950			
20. 20	42. 45	17. 0	·1037	20. 32	·01940			
20. 47	44. 30	21. 0	·1030	23. 54	·01998			
21. 30	44. 0	21. 45	·1026					
	***	22. 25	·1020					
23. 59	49. 55	23. 45	·1020					
		23. 52	·1024					
		23. 59	·1021					
July 16		July 16		July 16		July 16		
0. 0	21. 45. 5	0. 0	·1021	0. 27	·01980	1. 40	65·4	66·2
1. 13	51. 30	0. 20	·1028	2. 22	·01942	3. 40	67·0	67·5
3. 0	51. 30	0. 39	·1024	2. 59	·01918	9. 40	65·8	66·6
3. 42	48. 45	0. 52	·1027	4. 10	·01877	21. 40	66·4	67·2
4. 59	46. 30		***	4. 53	·01820			
9. 52	45. 30	2. 9	·1034	6. 58	·01702			
10. 24	43. 30	2. 15	·1023	8. 9	·01662			
10. 43	44. 40		***	9. 0	·01630			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. reduced for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. reduced for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
July 16		July 16				July 16		
h m	° ′ ″	h m		h m		h m	°	°
12. 36	21. 43. 25	2. 35	·1041	10. 15	·01672			
13. 25	44. 30		***	11. 6	·01713			
13. 57	44. 10	2. 50	·1037	13. 18	·01929			
14. 24	44. 30		***	13. 23	·01880			
	***	2. 55	·1049	15. 17	·01837			
17. 40	43. 0	3. 7	·1035	16. 43	·01843			
	***	3. 22	·1036	19. 54	·01800			
20. 1	39. 25	3. 34	·1024	21. 25	·01828			
21. 23	41. 25	3. 49	·1040	21. 41	·01844			
	***	3. 55	·1032	22. 30	·01849			
23. 10	47. 5	4. 6	·1036	23. 28	·01756			
23. 43	47. 30	4. 21	·1036	23. 59	·01680			
23. 50	49. 0	4. 35	·1039					
23. 59	48. 0	5. 19	·1032					
		5. 52	·1031					
		6. 2	·1036					
		6. 7	·1034					
		6. 15	·1036					
		6. 20	·1032					
		6. 37	·1036					
		7. 10	·1031					
		7. 36	·1036					
		8. 0	·1032					
		8. 22	·1030					
		8. 34	·1036					
		8. 40	·1040					
		8. 45	·1037					
		9. 12	·1031					
		9. 17	·1034					
		9. 52	·1030					
		10. 7	·1032					
		10. 45	·1036					
		11. 42	·1040					
		11. 52	·1044					
		12. 15	·1038					
		13. 9	·1036					
		13. 24	·1040					
		13. 30	·1037					
		14. 0	·1037					
		15. 55	·1040					
		16. 25	·1038					
		17. 7	·1040					
		18. 0	·1036					
		19. 7	·1036					
		19. 52	·1028					
		20. 17	·1032					
		21. 52	·1018					
		23. 16	·1019					
July 17		July 17		July 17		July 17		
0. 0	21. 48. 0	0. 15	·1032	0. 26	·01632	1. 40	64·0	64·2
1. 46	51. 50	1. 37	·1026	1. 40	·01422	3. 40	65·3	66·3
5. 54	44. 50	1. 40	·1026	3. 46	·00918	9. 40	68·0	69·0
	***	1. 57	·1024	3. 47	·00930	21. 40	62·5	65·0
6. 28	45. 50	2. 50	·1026	5. 59	·01005			
	***	3. 8	·1030	7. 31	·01008			
7. 36	43. 30	3. 37	·1026	9. 41	·00968			
8. 30	43. 53	4. 10	·1032	10. 26	·00932			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in Parts of the whole H. F. corresponding to Temperature 50°.	Göttingen Mean Solar Time.	Vertical Force in Parts of the whole V. F. corresponding to Temperature 50°.	Göttingen Mean Solar Time.	Readings of Thermometers.
July 17 h m	° ′ ″	July 17 h m		July 17 h m		h m	
8. 47	21. 42. 15	4. 35	·1220	11. 18	·00955		
9. 31	43. 0	4. 58	·1032	12. 3	·01030		
9. 56	36. 0	5. 22	·1030	14. 28	·01340		
10. 32	37. 0	5. 42	·1032	15. 32	·01010		
11. 0	40. 55	5. 54	·1027	17. —	·01880		
11. 14	40. 0	5. 59	·1015		·01746		
11. 40	42. 50	7. 4	·1023	19. 46	·01808		
	***	7. 22	·1017	20. 48	·01810		
12. 50	44. 10	8. 7	·1028	21. 59	·01833		
13. 2	43. 30	8. 44	·1019	23. 28	·01790		
	***	9. —	·1024				
13. 46	45. 20	9. 16	·1022				
14. 47	42. 50	9. 37	·1028				
15. 15	45. 25	9. 46	·1027				
15. 44	44. 30	10. 10	·1030				
16. 15	42. 0	11. 7	·1020				
	***	11. 15	·1028				
17. 27	42. 0	11. 23	·1020				
	***	11. 50	·1026				
17. 58	43. 10	12. 6	·1029				
	***	13. 12	·1030				
19. 32	41. 15	13. 44	·1034				
19. 52	42. 35	14. 3	·1037				
21. 18	41. 55	14. 15	·1034				
	***	14. 27	·1038				
23. 59	47. 30	14. 41	·1032				
		15. 15	·1035				
		15. 35	·1042				
		17. 30	·1049				
		18. 3	·1044				
		18. 51	·1047				
		19. 9	·1048				
		19. 55	·1044				
		20. 22	·1044				
		21. 12	·1038				
		23. 59	·1037				
July 18		July 18		July 18		July 18	
0. 0	21. 47. 30	0. 0	·1037	0. 0	·01758	1. 40	63. 0 64. 0
1. 36	50. 30	2. 28	·1030	2. 32	·01638	3. 40	64. 0 64. 0
2. 55	51. 15	3. 27	·1032	5. 40	·01602	9. 40	66. 0 68. 0
5. 0	47. 20	5. 30	·1040	8. 14	·01121	21. 40	62. 0 62. 0
7. 25	45. 5	7. 35	·1041	9. 0	·01121		
10. 50	44. 55	7. 45	·1044	10. 0	·00936		
11. 10	44. 0	8. 25	·1046				
12. 17	45. 15	8. 56	·1044	12. 27	·00930		
	***	9. 8	·1046	13. 15	·00971		
15. 52	43. 30	10. 25	·1042	13. 58	·01035		
	***	10. 40	·1044	16. 22	·01297		
16. 44	45. 0	10. 52	·1043	18. 1	·01562		
18. 7	40. 40	11. 10	·1045	18. 42	·01702		
18. 44	41. 30	13. 54	·1044	19. 45	·01761		
19. 28	42. 20	14. 7	·1046	21. 27	·01735		
	***	14. 32	·1042	22. 46	·01672		
22. 47	43. 30	15. 7	·1045	23. 47	·01556		
23. 59	47. 30	15. 50	·1044				
		16. 58	·1048				
		18. 10	·1046				

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in Parts of the whole H. F. corresponding to Temperature 50°.	Göttingen Mean Solar Time.	Vertical Force in Parts of the whole V. F. corresponding to Temperature 50°.	Göttingen Mean Solar Time.	Readings of Thermometers.
h m	° ′ ″	July 18 h m		July 1 h m		July 19 h m	
		18. 25	·1049				
		21. 5	·1041				
		22. 40	·1032				
		23. 31	·1028				
July 19		July 1		July 1		July 19	
0. 0	21. 47. 30	0. 8	·1027	0. 52	·01446	1. [illegible]	
1. 10	50. 30	1. 13	·1026	2. 13	·01110	3. 40	70. 5 71. 0
1. 43	50. 0	1. 26	·1024	2. 50	·01110	[illegible]	
	(†)	2. 20	·1028	3. 12	·01112	23. 15	[illegible]
2. 47	48. 55	2. 30	·1030	3. 32	[illegible]		
3. 42	47. 45	3. 12	·1032	3. 40	·01135		
4. 27	47. 35	3. 40	·1029	4. 22	[illegible]		
5. 31	46. 50	5. 55	·1032	12. 2	·01142		
5. 50	47. 0	6. 35	[illegible]	12. 32	[illegible]		
6. 34	44. 40	6. 58	·1031	14. 25	·01403		
10. 32	44. 55	7. 40	·1029	15. 44	[illegible]		
11. 18	45. 10	7. 25	·1029	23. 10	·01728		
11. 26	44. 45	7. 35	·1032	23. 10	[illegible]		
13. 17	44. 45	8. 7	·1028	23. 25	[illegible]		
15. 40	45. 15	8. 32	·1032				
16. 22	44. 40	8. 55	·1026				
17. 32	44. 30	9. 5	[illegible]				
20. 46	42. 10	9. 25	·1028				
	(†)	9. 40	·1028				
23. 18	43. 37	9. 50	[illegible]				
		10. 8	·1026				
		10. 44	·1029				
		10. 57	·1026				
		11. 7	·1027				
		11. 31	[illegible]				
		12. 3	·1028				
		12. 12	·1029				
		12. 30	[illegible]				
		12. 55	·1032				
		13. 18	·1034				
		20. 0	[illegible]				
		20. 12	·1027				
		20. 30	·1027				
		21. 34	·1025				
		22. 25	[illegible]				
		23. 22	·1027				
		23. 54	·1030				
July 20		July 2		July 1		July [illegible]	
0. 0	21. 47. 30	0. [illegible]	[illegible]	0. 0	[illegible]	[illegible]	
2. 13	51. 45	1. 35	·1029	3. 25	·01920	[illegible]	
4. 44	48. 30	1. 50	·1031	3. 55	·01902		
7. 36	47. 10	3. 37	·1029	4. 34	·01915		
8. 6	46. 50	4. 45	[illegible]	6. 5	·01920		
9. 16	46. 50	5. 18	[illegible]	7. 57	·01879		
10. 30	47. 45	5. 25	·1037	8. 22	[illegible]		
10. 51	46. 20	5. 37	·1038	9. 0	·01882		
11. 0	47. 30	5. 52	·1028	10. 35	[illegible]		
12. 10	44. 50	7. 0	[illegible]	11. 24	[illegible]		
14. 53	45. 30	7. 23	[illegible]				
15. 22	46. [illegible]	7. 55	·1042	16. 6	·01902		
20. 17	42. 30	10. 0	[illegible]	17. 5	[illegible]		

July 20. The Register for the Declination Magnet was faint, and the interruptions [illegible] remaining the times [illegible] times therefore are approximate only.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.
July 20 h m	° ′ ″
22. 56	21. 43. 45
July 21	
0. 25	21. 48. 35
0. 57	50. 20
1. 46	51. 30
2. 52	51. 20
4. 48	49. 15
6. 50	46. 20
8. 50 :	46. 0
9. 55	46. 30
11. 47	45. 55
13. 0	45. 15
15. 43	45. 0
15. 49	45. 50
16. 20	44. 35
18. 24	44. 0
18. 54	41. 55
19. 1	42. 20
19. 43	41. 50
19. 50	42. 10
20. 3	41. 5
20. 25	43. 0
20. 41	42. 40
21. 24	43. 30
21. 53	44. 5
22. 30	47. 30
23. 3	47. 50
23. 31	49. 20
23. 53	49. 0

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 20 h m	
10. 12	·1036
10. 22	·1038
10. 43	·1037
10. 54	·1041
13. 15	·1035
15. 37	·1036
17. 12	·1043
18. 54 :	·1045
20. 5	·1041
	(†)
21. 40	·1031 *
July 21	
0. 15	·1027
0. 23	·1023
0. 50	·1029
1. 21	·1030
1. 26	·1028
1. 40	·1030
2. 14	·1026
3. 2	·1029
3. 37	·1034
3. 43	·1031
4. 0	·1028
4. 13	·1033
4. 18	·1032
4. 38	·1035
4. 48	·1033
4. 58	·1035
5. 7	·1030
5. 22	·1030
5. 46	·1033
6. 15	·1026
6. 24	·1026
6. 40	·1031
7. 20	·1036
8. 22	·1035
8. 43	·1032
9. 59	·1030
10. 12	·1033
10. 21	·1034
11. 50	·1037
12. 18	·1031
13. 25	·1041
14. 15	·1040
14. 35	·1042
14. 40	·1042
15. 15	·1040
15. 27	·1041
16. 25	·1038
17. 45	·1041
18. 3	·1037
18. 10	·1041
18. 40	·1040
18. 58	·1042
20. 52	·1032
22. 5	·1023
22. 47	·1022

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
July 20 h m	
18. 6	·01843
19. 5	·01815
20. 40	·01843
22. 45	·01982
	(†)
July 21	
0. 24	·01828
2. 20	·01690
3. 26	·01560
6. 13	·01580
	·01082
8. 46	·01057
9. 14	·01068
13. 15	·01033
15. 30	·01036
18. 8	·01206
19. 15	·01310
21. 10	·01412
22. 48	·01412
23. 58	·01367

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
July 21		
1. 40	66 · 0	67 · 0
3. 40	67 · 5	68 · 0
9. 40	69 · 0	70 · 0
21. 40	67 · 5	67 · 8

Gottingen Mean Solar Time.	Western Declination.
h m	° ′ ″
July 22	
0. 10	21. 48. 45
1. 0	49. 30
1. 49	51. 20
2. 20	51. 15
3. 0	51. 10
4. 35	49. 0
5. 40	48. 50
5. 52	49. 30
6. 47	49. 20
7. 57	48. 0
8. 54	48. 30
10. 36	45. 10
10. 55	42. 20
14. 8	44. 50
14. 36	42. 10
14. 52	44. 55
15. 27	45. 10
15. 48	42. 15
16. 38	40. 5
17. 43	41. 10
18. 16	45. 10
18. 20	45. 10
18. 36	46. 30
19. 1	46. 30
19. 14	47. 40
19. 39	48. 10
19. 58	46. 30
20. 13	46. 30
20. 28	47. 30
20. 40	46. 35
21. 48	44. 30
23. 22	47. 0
23. 59	47. 20
July 23	
0. 0	21. 47. 30
1. 6	47. 50
1. 17	48. 30
3. 11	48. 0
4. 6	46. 10
7. 17	44. 30
8. 6	43. 20
8. 32	42. 0
8. 53	42. 55
9. 47	42. 30
10. 1	41. 30
10. 13	42. 45
10. 37	42. 0

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 21 h m	
22. 58	·1018
23. 59	·1017
July 22	
0. 0	·1017
2. 15	·1013
2. 31	·1015
2. 44	·1013
3. 30	·1017
3. 57	·1026
4. 37	·1016
5. 36	·1018
5. 50	·1028
7. 0	·1018
7. 22	·1027
7. 32	·1018
7. 54	·1026
9. 26	·1029
9. 51	·1037
10. 27	·1030
10. 50	·1033
11. 15	·1036
13. 25	·1037
13. 40	·1042
14. 0	·1037
14. 9	·1040
14. 24	·1034
14. 43	·1036
14. 55	·1041
15. 24	·1043
15. 50	·1034
16. 52	·1042
18. 7	·1036
18. 37	·1043
19. 24	·1032
20. 22	·1032
20. 54	·1033
21. 18	·1024
22. 45	·1011
22. 55	·1012
23. 59	·1000
July 23	
0. 0	·0998
	(†)
1. 40	·1001 *
3. 37	·1000
	***
5. 10	·1004
5. 52	·1002
7. 19	·1011
7. 30	·1015
8. 30	·1010
8. 44	·1014
9. 52	·1008
10. 2	·1012

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
July 22	
0. 14	·01360
1. 14	·01272
2. 13	·01128
3. 49	·01160
	·01287
4. 21	·01208
8. 57	·01137
10. 38	·01228
11. 40	·01350
14. 42	·01052
	·01104
18. 10	·01878
18. 38	·01860
19. 28	·01864
21. 13	·01910
21. 44	·01897
22. 44	·01752
23. 30	·01590
23. 53	·01452
July 23	
0. 43	·01270
1. 13	·01097
	·01150
1. 45	·01155
2. 6	·01243
3. 40	·01274
	·01346
4. 10	·01290
5. 14	·01273
	***
10. 52	·01248
11. 41	·01258
13. 59	·01420

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
July 22		
1. 40	71 · 0	71 · 5
3. 40	73 · 0	73 · 0
9. 40	72 · 0	73 · 0
21. 40	67 · 0	68 · 0
July 23		
1. 40	71 · 5	72 · 0
3. 40	74 · 0	75 · 0
9. 40	77 · 0	78 · 2
21. 40	70 · 0	71 · 0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 23 h m	° ′ ″	July 23 h m		July 23 h m		h m	°	°
11. 43	21. 42. 30	10. 34	·1010	16. 0	·01677			
15. 42	43. 50	10. 39	·1013	16. 42	·01787			
19. 56	41. 0	11. 38	·1011	17. 27	·01920			
20. 47	41. 30	12. 15	·1019	18. 19	·02050			
21. 45	41. 0	16. 30	·1030		·01995			
22. 17	44. 0	18. 34	·1036	20. 17	·02008			
23. 15	45. 50	18. 50	·1033		***			
23. 59	47. 30	19. 0	·1035	21. 0	·01983			
		20. 4	·1030		***			
		20. 57	·1028	22. 46	·01980			
		21. 55	·1022	23. 34	·01993			
			***	23. 39	·01976			
		23. 59	·1020	23. 57	·01972			
July 24		July 24		July 24		July 24		
0. 0	21. 47. 30		(†)		(†)	1. 40	71	·071 ·0
2. 41	49. 30	1. 40	·1008	1. 7	·01958	3. 40	72	·072 ·0
3. 44	47. 55	2. 54	·1020	2. 33	·01952	9. 40	72	·072 ·0
5. 28	47. 30	3. 27	·1018	4. 10	·01838	21. 40	64	·065 ·0
6. 12	46. 50	4. 15	·1023	4. 49	·01758			
7. 14	47. 0	4. 32	·1026	6. 0	·01693			
7. 54	45. 35	4. 50	·1031	8. 24	·01693			
8. 27	46. 30	5. 15	·1030	10. 14	·01756			
9. 42	45. 50	5. 41	·1034	10. 55	·01811			
9. 57	46. 30	6. 0	·1027	11. 44	·01890			
11. 17	44. 35	6. 17	·1031	14. 11	·01928			
12. 10	44. 20	7. 10	·1029	14. 47	·01910			
12. 43	45. 35	8. 0	·1038	16. 44	·01907			
13. 14	44. 40	8. 20	·1037	18. 39	·01908			
13. 31	42. 50	8. 25	·1042	19. 11	·01913			
14. 27	43. 15	9. 0	·1040	19. 48	·01899			
14. 39	42. 50	9. 42	·1044	21. 43	·01890			
14. 57	43. 50	9. 52	·1049	22. 6	·01872			
15. 5	43. 10	10. 2	·1039	22. 24	·01828			
15. 30	43. 50	10. 10	·1045	23. 9	·01837			
15. 44	42. 55	10. 20	·1040	23. 59	·01810			
15. 52	43. 50	10. 39	·1046					
16. 7	45. 0	11. 8	·1044					
16. 24	44. 50	11. 19	·1049					
16. 35	44. 30	12. 10	·1041					
16. 59	46. 10	12. 15	·1049					
18. 0	43. 15	12. 21	·1046					
18. 10	43. 20	12. 36	·1045					
18. 36	42. 0	12. 52	·1046					
19. 45	42. 15	13. 10	·1042					
20. 2	41. 0	13. 45	·1046					
20. 43	41. 55	14. 4	·1044					
20. 55	41. 30	14. 50	·1045					
	***	15. 50	·1037					
21. 50	42. 30	16. 44	·1036					
23. 54	47. 55	16. 57	·1038					
23. 59	47. 50	17. 30	·1034					
		18. 22	·1032					
		18. 52	·1034					
		19. 20	·1031					
		21. 0	·1025					
		21. 45	·1022					
		22. 30	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 24 h m	° ′ ″	July 24 h m		h m		h m	°	°
22. 45		22. 45	·1021					
23. 7		23. 7	·1022					
23. 26		23. 26	·1019					
23. 59		23. 59	·1018					
July 25		July 25		July 25		July 25		
0. 0	21. 47. 50	0. 0	·1018		(†)	1. 40	65	·066 ·0
1. 6	48. 20		***	1. 47	·01250	3. 40	68	·069 ·0
		0. 20	·1016	2. 21	·01230	9. 40	69	·069 ·3
1. 51	50. 0			5. 41	·01230	21. 40	62	·063 ·0
		0. 52	·1022	7. 27	·01170			
5. 29	49. 10			8. 15	·01170			
		1. 20	·1017	9. 16	·01172			
8. 6	46. 0			10. 46	·01154			
		1. 32	·1017	11. 43	·01150			
10. 47	44. 30			13. 53	·01640			
		1. 53	·1014	15. 10	·01599			
11. 54	42. 50			18. 30	·01547			
		2. 12	·1017	22. 31	·01569			
12. 42	42. 35			23. 17	·01506			
		2. 40	·1018	23. 52	·01420			
14. 33	42. 10			23. 57	·01392			
		2. 51	·1020					
15. 20	43. 45							
		3. 6	·1019					
15. 58	48. 0							
		3. 18	·1022					
17. 3	42. 20							
		4. 9	·1025					
17. 45	41. 20							
18. 5	42. 0	4. 20	·1020					
19. 10	41. 10							
19. 23	42. 0	4. 30	·1024					
19. 46	41. 20							
20. 46	41. 45	4. 55	·1025					
21. 10	41. 15							
23. 1	43. 30	5. 30	·1022					
23. 23	44. 40							
23. 59	45. 20	6. 51	·1032					
		7. 40	·1034					
		9. 0	·1042					
		9. 41	·1043					
		10. 4	·1042					
		10. 15	·1044					
		10. 37	·1045					
		10. 51	·1049					
		11. 21	·1050					
		11. 39	·1051					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Western Declination.
July 25		July 25		July 26	
h m	′	h m	′	h m	′
11. 52	·1044	0. 0	21. 45. 20	0. 0	·1026
12. 5	·1036	1. 0	47. 0		
12. 40	·1043	1. 15	46. 50	0. 23	·1024
13. [illegible]	·1034	1. 47	48. 5		
		2. 39	48. 50	0. 47	·1024
15. 40	·1033	2. 47	47. 45	1. 30	·1023
		2. 58	48. 10	2. 0	·1026
15. 50	·1037	3. 5	47. 50	2. 18	·1030
		3. 31	48. 45	2. 23	·1030
16. 55	·1042	3. 45	47. 55	2. 39	·1034
		3. 58	45. 45	2. 48	·1030
17. 10	·1044	4. 44	45. 30	3. 0	·1030
		4. 59	46. 20	3. 25	·1030
17. 30	·1042	5. 12	45. 10	3. 37	·1030
		5. 38	44. 30	3. 52	·1030
18. 17	·1040	6. 47	45. 35	4. 24	·1027
		7. 10	44. 30	4. 36	·1028
18. 37	·1043	7. 44	44. 50	4. 51	·1021
		8. 16	42. 50	5. 25	·1022
19. 27	·1038	8. 24	43. 25	5. 37	·1030
		8. 39	43. 0	5. 51	·1032
19. 50	·1040	8. 56	43. 30	5. 55	·1030
		9. 42	42. 20	7. 10	·1044
19. 59	·1041	9. 50	43. 10	7. 33	·1047
		10. 2	42. 40	8. 20	·1042
20. 11	·1042	10. 11	43. 0	8. 32	·1042
		10. 41	41. 40	8. 52	·1045
20. 21	·1043	11. 10	44. 55	9. 20	·1044
		11. 16	43. 0	9. 55	·1045
20. 37	·1043	11. 21	44. 20	9. 54	·1044
		11. 45	42. 0	10. 3	·1047
20. 51	·1041	12. 2	44. 0	10. 34	·1038
		12. 10	41. 30	11. 0	·1040
21. 0	·1044	12. 44	44. 30	11. 20	·1046
		13. 12	43. 30	11. 53	·1042
21. 30	·1040	13. 30	39. 10	12. 0	·1036
		14. 22	39. 0	12. 47	·1045
21. 42	·1041	14. 47	41. 30	13. 21	·1047
		15. 7	42. 0	13. 50	·1038
22. 0	·1040	15. 14	40. 30	14. 20	·1039
		15. 17	41. 55	14. 37	·1037
22. 12	·1038	15. 38	40. 30	15. 0	·1037
		15. 47	42. 30	15. 22	·1042
22. 20	·1037	16. 14	41. 25	15. 32	·1040
		16. 35	44. 15	15. 55	·1038
22. 31	·1037	16. 43	44. 5	16. 21	·1036
		16. 53	45. 10	16. 33	·1038
22. 52	·1024	17. 31	41. 55	17. 22	·1044
		17. 36	42. 50	17. 26	·1041
23. 20	·1023	17. 47	40. 50	18. 37	·1046
		18. 14	40. 0	19. 12	·1041
23. 29	·1026	18. 27	41. 20	19. 35	·1041
		18. 46	40. 30	20. 22	·1034
23. 40	·1026	19. 0	41. 5	20. 30	·1035
		19. 32	38. 45	21. 0	·1033
23. 54	·1025	19. 40	39. 30	21. 57	·1031
		19. 47	38. 10	22. 7	·1028
		19. 55	39. 0	22. 12	·1030

Göttingen Mean Solar Time.	Vertical Force. Excess of the V. F. for Intervals of Scale-Division.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 25		July 26		
h m		h m		
0. 31	·01040	1. 40	66	·867 ·3
1. 14	·01131	3. 40	69	·069 ·4
1. 41	·01111	9. 40	70	·572 ·0
1. 55	·01130	23. 14	03	·004 ·0
1. 59	·01181			
2. 7	·01177			
3. 30	·01227			
3. 48	·01230			
4. 41	·01284			
5. 0	·01296			
6. 32	·01257			
9. 58	·01241			
12. 0	·01236			
13. 20	·01437			
13. 45	·01426			
15. 7	·01471			
20. 17	·01627			
19. 45	·01612			
21. 10	·01633			
21. 38	·01608			
23. 15	·01608			
23. 41	·01570			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol] attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole. Increasing for Tenths.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole. Increasing for Tenths.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 26		July 26				h m	°	°
h m	° ′ ″	h m						
20. 5	21. 37. 40	22. 42	·1027					
20. 33	40. 40	23. 0	·1028					
20. 44	40. 30	23. 59	·1022					
22. 1	44. 30							
22. 40	44. 35							
23. 40	46. 0							
July 27		July 27		July 27		July 27		
0. 3	21. 45. 45	0. 0	·1022	0. 0	·01517	7. 41	67	·0
1. 20	47. 50	0. 32	·1024	0. 43	·01410	21. 40	62	·0
2. 14	47. 20	0. 55	·1017	2. 14	·01072			
2. 36	48. 0	1. 36	·1019	2. 51	·01127			
3. 0	47. 20	2. 15	·1031	8. 7	·01127			
3. 10	47. 30	2. 30	·1027	10. 16	·01250			
3. 20	47. 0	2. 54	·1032	13. 58	·01642			
3. 40	47. 10	3. 0	·1030	15. 43	·01629			
3. 59	46. 30	3. 9	·1030	18. 47	·01617			
4. 30	47. 0	3. 22	·1039	20. 19	·01634			
4. 39	46. 30	3. 30	·1037	20. 39	·01618			
5. 7	46. 30	3. 57	·1032	21. 17	·01629			
5. 40	45. 20	3. 52	·1032	23. 6	·01552			
7. 2	44. 30	4. 7	·1037	23. 59	·01412			
8. 34	42. 20	4. 18	·1035					
10. 55	43. 5	4. 50	·1042					
11. 18	39. 35	5. 10	·1042					
11. 30	41. 20	5. 22	·1036					
11. 44	40. 0	5. 35	·1032					
11. 59	38. 10	5. 46	·1035					
		6. 2	·1032					
12. 10	34. 40	6. 12	·1042					
12. 19	33. 40	6. 22	·1043					
		6. 55	·1044					
12. 42	38. 30	7. 20	·1045					
		8. 4	·1042					
13. 4	40. 5	8. 25	·1048					
13. 17	38. 40	8. 50	·1036					
14. 40	42. 15							
16. 25	42. 35	10. 7	·1045					
16. 48	43. 0	11. 0	·1041					
17. 9	42. 15	11. 15	·1048					
18. 19	42. 10	11. 40	·1044					
		11. 46	·1039					
19. 6	44. 20	11. 58	·1053					
20. 24	42. 30	12. 7	·1044					
21. 51	43. 0	12. 15	·1050					
23. 11	46. 15	12. 42	·1044					
23. 21	45. 55	12. 50	·1047					
23. 54	47. 20	12. 55	·1043					
		13. 22	·1046					
		13. 48	·1047					
		14. 7	·1043					
		15. 15	·1044					
		16. 37	·1046					
		16. 50	·1048					
		18. 7	·1043					
		19. 25	·1045					
		20. 4	·1041					
		22. 14	·1039					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole. Increasing for Tenths.	Absolute Value in parts of the whole corrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m			h m	°	°
July 28		July 27			July 28		
0. 0	21. 47. 20	22. 30	·1042				
3. 6	51. 0	22. 44	·1037				
4. 28	47. 0	23. 15	·1030				
5. 58	47. 25	23. 43	·1036				
7. 32	44. 30	23. 59	·1036				
9. 31	44. 30						
10. 12	40. 50						
10. 58	44. 30						
11. 6	43. 10						
11. 55	45. 30						
16. 12	44. 45						
19. 41	39. 50						
21. 36	41. 30						
23. 28	46. 30						
23. 59	48. 30						
July 29		July 28			July 28		
0. 0	21. 48. 45	0. 0	·1016		1. 40	70	·0
1. 44	53. 30	0. 50	·1014		3. 40	72	·0
4. 46	45. 0	1. 20	·1015		9. 40	75	·0
7. 54	44. 0	1. 35	·1023		21. 40	66	·0
8. 11	42. 40	2. 15	·1014				
8. 39	44. 45	2. 38	·1012				
9. 24	44. 35	2. 51	·1013				
10. 14	43. 0	3. 5	·1009				
10. 21	43. 30	3. 36	·1014				
10. 47	41. 25	3. 52	·1011				

Greenwich Mean Solar Time.	Horizontal Force in parts of the whole. Increasing for Tenths.	Absolute Value in parts of the whole corrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m			h m	°	°
July 28			July 28		
0. 0	[illegible]		0. 0	[illegible]	
0. 45	·1038		1. 2	·01350	(†)
2. 0	·1030		2. 13	·01127	2. 37
2. 31	·1024		3. 0	·[illegible]	4. 22
4. 7	·1022		4. 30	·1024	6. 54
4. 30	·1024		4. 52	·[illegible]	8. 27
4. 52	·[illegible]		5. 45	·1021	9. 29
5. 45	·1021		5. 55	·1017	10. 32
5. 55	·1017		6. 6	·1018	11. 15
6. 6	·1018		6. 20	·1016	16. 13
6. 20	·1016		6. 45	·1016	20. 0
6. 45	·1016		7. 28	·1018	23. 10
7. 28	·1018		7. 40	·1022	23. 59
7. 40	·1022		8. 50	·1024	
8. 50	·1024		9. 0	·1026	
9. 0	·1026		9. 7	·1026	
9. 7	·1026		9. 26	·1024	
9. 26	·1024		9. 47	·1027	
9. 47	·1027		9. 59	·1030	
9. 59	·1030		10. 15	·1027	
10. 15	·1027		10. 30	·1034	
10. 30	·1034		11. 12	·1037	
11. 12	·1037		11. 42	·1034	
11. 42	·1034		13. 0	·1034	
13. 0	·1034		17. 0	·1033	
17. 0	·1033		17. 45	·1038	
17. 45	·1038		18. 55	·1040	
18. 55	·1040		19. 52	·1031	
19. 52	·1031				
			21. 10	·1032	
21. 10	·1032				
			22. 52	·1018	
22. 52	·1018				
			23. 22	·1020	
23. 22	·1020		23. 30	·1016	
23. 30	·1016				
			23. 59	·1016	
July 29			July 29		
0. 0	·1016		1. 40	70	·0
0. 50	·1014		3. 40	72	·0
1. 20	·1015		9. 40	75	·0
1. 35	·1023		21. 40	66	·0
2. 15	·1014				
2. 38	·1012				
2. 51	·1013				
3. 5	·1009				
3. 36	·1014				
3. 52	·1011				

Greenwich Mean Solar Time.	Absolute Value in parts of the whole corrected for Temperature.
h m	
July 28	
1. 2	·01350
2. 13	·01127
2. 37	·01100
4. 22	·01218
6. 54	·01273
8. 27	·01267
9. 29	·01272
10. 32	·01249
11. 15	·01255
	·01250
16. 13	·01778
20. 0	·01737
23. 10	·01722
23. 59	·01602
July 29	
1. 0	·01450
2. 15	·01232
3. 18	·01246
	·01460
3. 40	·01362
	·01385
6. 43	·01350
10. 15	·01288
12. 2	·01371

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.
July 29 h m	° ′ ″
11. 7	21. 43. 45
11. 18	43. 40
	***
11. 41	41. 30
	***
12. 28	44. 30
	***
13. 47	44. 0
14. 25	50. 0
15. 38	42. 30
16. 30	42. 30
17. 35	41. 20
19. 16	43. 30
19. 52	41. 10
20. 0	41. 55
20. 8	40. 20
20. 17	42. 0
20. 24	40. 30
20. 43	42. 30
21. 6	42. 10
22. 45	42. 5
22. 51	46. 55
23. 59	51. 5

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 29 h m	
4. 15	·1011
4. 28	·1015
4. 40	·1012
4. 52	·1012
5. 20	·1022
5. 39	·1018
5. 53	·1023
6. 52	·1021
7. 0	·1018
7. 16	·1025
7. 34	·1019
7. 40	·1025
8. 0	·1019
8. 10	·1019
9. 55	·1021
10. 21	·1031
10. 51	·1023
11. 12	·1027
12. 13	·1028
12. 48	·1023
12. 52	·1026
13. 4	·1025
13. 14	·1030
13. 40	·1029
13. 49	·1031
13. 54	·1026
14. 20	·1033
14. 38	·1037
15. 0	·1036
15. 20	·1038
15. 58	·1036
16. 37	·1040
16. 52	·1039
17. 21	·1041
18. 15	·1037
18. 35	·1037
18. 48	·1035
19. 26	·1045
20. 5	·1041
20. 11	·1044
20. 21	·1040
20. 30	·1044
21. 5	·1041
21. 21	·1040
21. 52	·1041
22. 25	·1038
22. 37	·1041
22. 51	·1037
23. 5	·1040
23. 59	·1042

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
July 29 h m	
15. 14	·01828
18. 0	·01810
20. 1	·01763
21. 54	·01762
22. 0	·01736
23. 59	·01773

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°

Gottingen Mean Solar Time.	Western Declination.
July 30 h m	° ′ ″
8. 41	21. 44. 0
8. 56	42. 10
9. 10	43. 0
10. 41	44. 10
10. 55	44. 0
11. 27	44. 30
11. 59	43. 30
13. 40	44. 30
14. 17	43. 15
16. 35	45. 30
17. 44	44. 0
19. 0	42. 40
19. 26	41. 30
19. 52	40. 50
20. 10	41. 30
20. 30	41. 15
20. 52	41. 0
21. 0	40. 40
22. 28	47. 5
22. 37	47. 10
23. 47	51. 20

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 30 h m	
2. 44	·1018
3. 5	·1019
3. 37	·1014
4. 5	·1015
4. 52	·1012
5. 25	·1014
	***
5. 55	·1013
	***
7. 14	·1016
	***
8. 0	·1016
	***
8. 22	·1018
	***
8. 50	·1021
	***
9. 30	·1024
10. 0	·1022
10. 25	·1024
10. 37	·1027
10. 54	·1026
11. 15	·1032
13. 15	·1029
13. 37	·1031
13. 55	·1030
14. 22	·1031
14. 37	·1030
14. 50	·1033
15. 20	·1032
17. 47	·1042
18. 7	·1038
18. 22	·1035
19. 35	·1034
20. 15	·1030
20. 48	·1028
21. 7	·1022
21. 25	·1019
22. 2	·1014
22. 7	·1007
22. 15	·1008
22. 37	·0996
23. 59	·0996

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
July 30 h m	
8. 5	·01370
8. 15	·01412
8. 28	·01357
11. 29	·01379
13. 49	·01530
15. 13	·01716
16. 7	·01910
17. 47	·01876
20. 47	·01846
22. 13	·01864
23. 15	·01776
23. 52	·01645

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°

July 31		July 31		July 31		July 31			
0. 0	21. 51. 50	0. 0	·0996	0. 16	·01632	1. 40	·76	·76	·75
0. 20	52. 55	0. 15	·0989	1. 44	·01296	3. 40	·78	·79	·80
0. 30	52. 5	0. 25	·0982	3. 50	·01405	9. 40	·79	·58	·80
1. 10	55. 0	1. 0	·0987	3. 58	·01480	21. 40	·59	·69	·55
1. 48	55. 0	1. 7	·0988	4. 15	·01397				
4. 5	50. 0	1. 56	·0980	5. 29	·01410				
4. 15	49. 0	3. 4	·0974	5. 32	·01424				
4. 39	47. 55	3. 25	·0976	6. 22	·01390				
4. 50	47. 35	3. 37	·0975	6. 29	·01426				
5. 1	45. 30	3. 44	·0979	7. 13	·01364				
7. 0	41. 20	4. 22	·0981	7. 56	·01328				
7. 12	41. 50	4. 38	·0979	9. 51	·01330				
8. 17	40. 55	5. 15	·0983	10. 24	·01364				

July 30		July 30		July 30		July 31			
0. 20	21. 50. 30	0. 0	·1032	0. 46	·01732	1. 40	·69	·70	·74
2. 28:	52. 10	0. 22	·1030	1. 31	·01660	3. 40	·73	·74	·0
3. 40	50. 30	0. 42	·1026	2. 22	·01556	9. 40	·77	·78	·0
5. 0	46. 45	1. 5	·1028	3. 19	·01277	21. 40	·70	·71	·0
7. 48	43. 50	2. 7	·1021		·01312				
8. 1	42. 50	2. 22	·1022	5. 35	·01409				

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 31		July 31		July 31				
h m	° ′ ″	h m		h m		h m	°	°
8. 35	21. 42. 30	5. 45	·0982	11. 3	·01444			
8. 47	39. 50	7. 50	·0991	11. 59	·01624			
9. 28	44. 0	8. 4	·0991	13. 5	·01870			
14. 13	43. 0	8. 20	·0993	15. 15	·01817			
15. 59	42. 15	8. 40	·0994	15. 54	·01776			
16. 31	42. 20	8. 50	·1001	19. 24	·01752			
16. 52	41. 50	9. 48	·1001	21. 30	·01773			
17. 1	42. 0	10. 0	·1003	22. 1	·01764			
19. 2	39. 30	10. 7	·1003	23. 3	·01653			
20. 16	38. 55	10. 17	·1006	23. 22	·01592			
21. 27	40. 55	10. 48	·1005	23. 30	·01530			
23. 13	44. 30	11. 10	·1010	23. 47	·01468			
23. 59	46. 20	12. 25	·1016	23. 59	·01410			
		12. 43	·1020					
		13. 0	·1020					
		13. 40	·1023					
		13. 51	·1023					
		18. 0	·1046					
		18. 34	·1046					
		19. 6	·1039					
		19. 15	·1042					
		19. 42	·1043					
		19. 50	·1039					
		19. 55	·1043					
		20. 5	·1037					
		20. 30:	·1037					
		20. 52	·1035					
		21. 26	·1024					
		22. 43	·1005					
		23. 7	·1011					
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 0	21. 46. 20	0. 6	·1002	0. 18	·01260	1. 40	·77	·0 ·77 ·8
		0. 21	·1000	0. 31	·01156	3. 40	·80	·6 ·81 ·6
2. 32	48. 45	0. 30	·1002	1. 12	·01230	9. 40	·78	·9 ·79 ·4
		0. 45	·0996	3. 16	·01330	21. 40	·71	·1 ·72 ·0
4. 20	45. 40			4. 44	·01322			
5. 17	44. 50	3. 45	·0996		·01420			
5. 38	43. 40			5. 16	·01355			
5. 52	43. 40	3. 51	·0986	8. 9	·01260			
				9. 13	·01263			
7. 17	43. 0	4. 6	·0995	10. 18	·01348			
				10. 54	·01410			
12. 28	45. 0	4. 34	·0996	11. 44	·01540			
				11. 58	·01598			
13. 35	44. 20	5. 55	·1001	13. 12	·01890			
				16. 28	·01830			
14. 11	45. 30	9. 37	·1013	19. 11	·01806			
				21. 13	·01802			
16. 40	44. 5	9. 56	·1011	22. 14	·01753			
19. 28	41. 15			23. 7	·01610			
20. 14	41. 30	10. 10	·1014	23. 51	·01428			
21. 39	42. 30	10. 51	·1016					
23. 59	50. 0	11. 7	·1022					
		11. 36	·1021					
		11. 59	·1026					
		12. 22	·1027					
		14. 4	·1036					
		14. 15	·1038					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 1		h m		h m	°	°
		h m						
		15. 3	·1040					
		15. 17	·1044					
		18. 30	·1045					
		19. 6	·1040					
		19. 22	·1044					
		20. 7	·1038					
		20. 30:	·1037					
		21. 22	·1023					
		21. 45	·1018					
		23. 30	·0989					
		23. 40	·0990					
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 0	21. 50. 5	0. 0	·0994	0. 19	·01321	1. 40	78	·0 79 ·0
0. 28	51. 40			0. 51	·01163	3. 40	81	·0 82 ·5
1. 40	51. 50	2. 47	·0972	2. 18	·01314	9. 40	80	·8 82 ·0
2. 5	49. 30	3. 0	·0983	3. 4	·01366	23. 28	73	·0 74 ·5
4. 15	45. 0				·01423			
6. 52	42. 5	4. 28	·0986	5. 11	·01295			
		4. 52	·0988	6. 30	·01355			
9. 30	44. 30	5. 32	·0986	7. 24	·01350			
		6. 12	·0988	8. 32	·01349			
13. 47:	43. 50	6. 52	·1002	9. 44	·01362			
14. 47	43. 10	7. 10	·1003	10. 46	·01512			
16. 2	45. 0	7. 52	·1012	11. 45	·01690			
20. 5	41. 0	8. 13	·1013	12. 18	·01818			
20. 36	43. 0	8. 45	·1020	17. 9	·01723			
21. 39	43. 40	10. 0	·1022	18. 45	·01701			
22. 15	46. 30	10. 7	·1025	19. 52	·01710			
22. 45	47. 5	10. 21	·1022	21. 30	·01721			
23. 0	46. 30	10. 41	·1026	22. 36	·01673			
23. 14	47. 50	10. 48	·1019	23. 10	·01578			
23	48. 0	11. 6	·1023	23. 48	·01410			
		13. 20	·1033					
		14. 15	·1035					
		14. 37	·1036					
		14. 52	·1036					
		15. 42	·1031					
		16. 5	·1045					
		16. 11	·1044					
		16. 21	·1045					
		16. 25	·1042					
		17. 25	·1051					
		18. 24	·1051					
		18. 49	·1046					
		19. 20	·1045					
		19. 34	·1048					
		20. 6	·1047					
		20. 21	·1048					
		21. 6	·1039					
		21. 52	·1022					
		22. 53	·1013					
		23. 50	·1014					
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 13	21. 49. 5	0. 0	·0996	0. 15	·01230	0. 3	80	·0 81 ·0
1. 0:	51. 55	0. 7	·0994	0. 49	·00983	21. 40	67	·0 68 ·0
		0. 15	·0998		·01043			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 3		Aug. 3		Aug. 3		h m		
h m	° ′ ″	h m		h m				
2. 42	21. 51. 30	0. 54	·0987	2. 52	·01183			
				4. 14	·01210			
3. 28	50. 40	2. 30	·0986					
				6. 10	·01180			
5. 7	47. 15	2. 55	·0974	7. 11	·01203			
				7. 39	·01170			
5. 28	45. 0	3. 15	·0976	9. 1	·01162			
				9. 47	·01210			
6. 28	43. 40	3. 21	·0966	10. 28	·01317			
				10. 47	·01328			
6. 54	45. 30	3. 26	·0982	12. 41	·01822			
				14. 1	·01748			
7. 39	43. 0	3. 35	·0982	17. 13	·01692			
				20. 17	·01643			
7. 56	45. 30	3. 37	·1001	21. 18	·01672			
				21. 55	·01696			
10. 2	41. 40	3. 49	·0989	23. 16	·01677			
10. 16	38. 30			23. 51	·01647			
10. 32	38. 20	4. 26	·0980					
10. 57	32. 0							
		4. 40	·0964					
12. 13	42. 40							
		5. 15	·0984					
15. 43	43. 30							
15. 58	44. 45	5. 30	·0985					
16. 52	45. 0							
18. 14	42. 0	5. 58	·0984					
18. 42	39. 45							
19. 14	40. 0	6. 5	·0995					
19. 32	38. 30							
20. 24	42. 5	6. 7	·0988					
21. 1	42. 0							
21. 49	45. 35	6. 24	·0980					
22. 1	44. 30							
22. 30	47. 40	6. 52	·0992					
22. 44	47. 50							
23. 30	50. 30	7. 6	·1003					
23. 38	50. 15							
23. 59	52. 0	7. 12	·1000					
		7. 19	·1004					
		7. 23	·1002					
		7. 33	·0988					
		8. 0	·0987					
		8. 49	·0991					
		9. 30	·1007					
		10. 5	·1005					
		10. 22	·1026					
		10. 25	·1026					
		10. 40	·1004					
		11. 5	·1004					
		11. 15	·1012					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Aug. 3						
h m	° ′ ″	h m		h m		h m		
		11. 25	·1011					
		11. 34	·1000					
		13. 22	·1016					
		13. 35	·1016					
		14. 55	·1023					
		17. 52	·1028					
		18. 0	·1026					
		18. 7	·1030					
		18. 11	·1028					
		19. 6	·1032					
		21. 0	·1031					
		22. 21	·1035 (†)					
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 0	21. 52. 15	0. 15	·1024	0. 41	·01570	1. 40	71	72
0. 36	53. 50			1. 41	·01480	3. 40	76	77
1. 12	52. 50	0. 52	·1024	2. 16	·01300	9. 40	74	75
1. 15	54. 0			2. 54	·01111	21. 40	73	74
1. 28	52. 50	1. 5	·1014		·01153			
1. 47	53. 0			3. 18	·01212			
1. 55	54. 20	1. 12	·1022		·01184			
2. 9	53. 0			3. 38	·01602			
3. 4	51. 45	1. 25	·1017		·01612			
3. 18	52. 15			5. 43	·01633			
3. 27	51. 15	1. 56	·1024	7. 46	·00965			
3. 43	51. 40			9. 2	·01014			
4. 3	50. 30	2. 9	·1016	10. 18	·01153			
4. 27	52. 0			10. 43	·01229			
4. 38	50. 50	2. 33	·1010	12. 28	·01650			
4. 55	50. 30			13. 15	{·01622 ·01708			
5. 15	48. 15	3. 10	·1023					
				15. 15	·01564			
5. 47	48. 35	3. 26	·1018	16. 43	·01532			
				17. 1	·01553			
6. 5	41. 50	3. 49	·1023	18. 14	·01529			
				20. 7	·01547			
6. 25	41. 50	3. 58	·1014	22. 4	·01564			
				22. 27	·01538			
7. 15	44. 30	4. 22	·1031	23. 20	·01436			
8. 12	41. 50	4. 37	·1020					
8. 47	43. 30	4. 57	·1020					
9. 17	41. 5							
9. 31	35. 0	5. 7	·1013					
9. 42	39. 0							
		5. 30	·1010					
10. 28	41. 0							
		5. 45	·1028					
11. 1	38. 45							
		6. 30	·1016					
11. 44	41. 30							
12. 15	40. 15	7. 0	·1010					
13. 2	47. 20	7. 12	·1017					
13. 47	44. 0	7. 20	·1009					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol † denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Aug. 4	
h m	° ′ ″
15. 57	21. 43. 15 ***
16. 40	42. 0 ***
17. 43	45. 0 ***
18. 0	46. 30
18. 24	41. 30 ***
19. 32	39. 20 ***
20. 30	40. 20
22. 5	46. 30
23. 59	51. 30
Aug. 5	
0. 0	21. 51. 30
0. 11	52. 15
1. 54	54. 5 ***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 4	
h m	
7. 37	·1007 ***
7. 45	·1001 ***
8. 6	·1003 ***
8. 15	·1007 ***
8. 30	·1004
8. 51	·1012
9. 0	·1011
9. 30	·1021
9. 43	·1052
9. 52	·1052
10. 12	·1031
10. 22	·1032
10. 42	·1020
11. 30	·1016
11. 40	·1024
11. 49	·1021
12. 0	·1024
12. 15	·1030
12. 22	·1034
13. 0	·1022
13. 22	·1048
14. 10	·1034
14. 19	·1036
14. 35	·1031
15. 29	·1031
15. 34	·1038
15. 40	·1034
16. 0	·1036
16. 4	·1042
16. 22	·1035
16. 58	·1032
17. 7	·1036
17. 37	·1036
18. 0	·1042
18. 55	·1040
19. 7	·1037
19. 21	·1040
20. 0	·1036
20. 13	·1029
20. 22	·1030
21. 10	·1021
21. 30	·1020
21. 52	·1013
22. 10	·1012
22. 28	·1010
22. 37	·1012
22. 51	·1007
23. 59	·1007
Aug. 5	
0. 0	·1007
1. 0	·0998
2. 22	·1006

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Aug. 5	
0. 56	·01167
1. 44	·00840

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Aug. 5		
1. 40	70·7	72·3
3. 40	74·5	75·5
9. 40	72·0	73·0

Göttingen Mean Solar Time.	Western Declination.
Aug. 5	
h m	° ′ ″
4. 52	21. 45. 10 ***
6. 40	43. 30 ***
7. 10	35. 45 ***
8. 3	41. 30 ***
9. 10	45. 0 ***
10. 9	45. 0 ***
10. 47	41. 0 ***
11. 47	45. 30 ***
12. 36	44. 20 ***
13. 32	44. 30 ***
13. 49	43. 0 ***
14. 36	48. 10 ***
15. 8	44. 35 ***
16. 55	41. 50 ***
17. 58	44. 30
18. 28	42. 15
19. 5	44. 0
19. 31	43. 10
19. 43	44. 50
20. 0	43. 5
21. 41	43. 35
22. 23	44. 55
22. 33	46. 0
23. 24	46. 10
23. 59	48. 40
Aug. 6	
0. 0	21. 48. 50
0. 8	49. 20
0. 21	48. 20
0. 54	49. 30
1. 5	50. 55
1. 37	51. 25
2. 25	51. 0
2. 36	51. 20

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 5	
h m	
2. 45	·1004
3. 15	·1005
3. 27	·1010 ***
4. 15	·1006 ***
4. 45	·1009 ***
4. 51	·1012 ***
5. 5	·1007
5. 15	·1004 ***
5. 55	·1014
6. 6	·1012 ***
6. 30	·1017 ***
6. 50	·1009
7. 5	·1016
7. 15	·1030
8. 13	·1017
9. 18	·1023
10. 25	·1025
10. 30	·1029
11. 15	·1023
12. 20	·1037
12. 37	·1037
13. 21	·1033
13. 50	·1030
14. 5	·1034
14. 21	·1033
14. 51	·1052
15. 20	·1048
17. 21	·1054
17. 25	·1053
18. 6	·1057
18. 37	·1055
19. 7	·1048
19. 15	·1053
19. 55	·1056
20. 50	·1050
21. 8	·1051
21. 30	·1048
21. 45	·1048
23. 0	·1037
23. 50	·1032
23. 59	·1028
Aug. 6	
0. 0	·1028
0. 15	·1024
0. 26	·1023
0. 56	·1020
2. 0	·1002
2. 33	·1012
3. 37	·1002
3. 45	·1007 ***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Aug. 5	
h m	
1. 47	[illegible]
3. 44	·01064
4. 41	·01088
5. 45	·01076
7. 55	·00980
8. 27	·00977
9. 7	·01030
10. 14	·01267
10. 48	·01420
11. 44	·01730
12. 2	·01700
13. 10	·01700
15. 9	·01621
16. 42	·01609
18. 42	·01602
20. 16	·01615
21. 5	·01660
22. 0	·01663
23. 59	·01438
Aug. 6	
1. 2	·01286
1. 40	·01120
2. 33	·00839
2. 50	·00870
5. 24	·00983
6. 3	·00978
7. 17	·00958

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Aug. 5		
21. 40	62·0	63·0
Aug. 6		
1. 40	67·0	68·0
3. 40	70·0	71·0
9. 40	71·0	72·5
21. 40	63·0	64·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 6		Aug. 6		Aug. 6				
h m s	° ′ ″	h m		h m		h m	°	°
3. 11	21. 49. 55	5. 10	·1006	9. 4	·00875			
3. 41	47. 10	5. 15	·0995	10. 3	·00917			
4. 11	45. 20	5. 22	·0991	11. 22	·01120			
5. 51	43. 10	5. 23	·0996	14. 9	·01700			
9. 11	43. 30			15. 42	·01675			
9. 44	42. 30	6. 30	·1000	16. 30	·01670			
10. 0	43. 30			17. 44	·01660			
10. 21	43. 0	6. 37	·1008	20. 51	·01637			
	***		***	21. 58	·01650			
11. 15	44. 35	8. 22	·1030	22. 35	·01635			
	***	8. 49	·1028	23. 42	·01525			
12. 0	44. 30	9. 27	·1032	23. 59	·01470			
12. 17	48. 15	11. [illegible]	·1031					
12. 44	48. 5	12. 15	·1037					
13. 33	44. 40	13. 0	·1042					
14. 9	44. 10	14. 15	·1039					
14. 45	45. 0	15. 22	·1047					
15. 25	44. 30	16. 8	·1046					
15. 58	43. 30	17. 30	·1048					
17. 2	43. 45	17. 52	·1051					
18. 34	43. 20	18. 40	·1053					
19. 19	41. 15	19. 15	·1049					
19. 47	41. 0	19. 30	·1050					
20. 50	42. 5	20. 4	·1049					
21. 10	43. 0	20. 22	·1046					
21. 45	44. 5	20. 45	·1042					
23. 3	47. 50	22. 25	·1033					
23. 10	47. 45	23. 15	·1026					
23. 19	49. 5	23. 59	·1018					
23. 31	48. 55							
23. 42	50. 30							
23. 51	50. 25							
23. 59	51. 5							
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
0. 0	21. 51. 0	0. 0	·1013		(†)	1. 40	69 ·0	70 ·0
0. 12	51. 40	1. 0	·1000	0. 44	·01390	3. 40	73 ·0	74 ·0
		1. 55	·1007	1. 13	·01310	9. 40	74 ·6	76 ·0
2. 29	47. 20	2. 40	·1001	2. 15	·01012	21. 40	62 ·5	64 ·0
	***	2. 48	·1012	2. 47	{ ·00894			
2. 47	47. 30	3. 7	·1001		{ ·00883			
3. 13	45. 40	3. 25	·1007	3. 17	{ ·00907			
	***	3. 35	·1004		{ ·00928			
4. 36	44. 0	3. 45	·1008	4. 44	·01010			
	***	4. 32	·1008	6. 11	·01054			
4. 52	44. 20	4. 50	·1018	7. 32	·01018			
5. 4	42. 0	5. 0	·1008	8. 47	·00950			
5. 43	42. 45	5. 12	·1006	9. 59	·00980			
6. 0	43. 10	5. 45	·1016	11. 26	·01132			
7. 17	38. 35	5. 55	·1022	12. 3	·01230			
7. 20	37. 20	6. 25	·1010	14. 32	·01729			
7. 38	[illegible]	6. 40	·1027	16. 22	·01668			
7. 45	37. 30	7. 30	·1016	19. 15	·01637			
		8. 45	·1022	22. 15	·01660			
8. 41	38. 50	9. 13	·1013	23. 0	·01686			
9. 10	40. 40	9. 45	·1022	23. 59	·01663			
	***	10. 6	·1018					
10. 7	38 40	10. 22	·1022					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 7		Aug. 7						
h m	° ′ ″	h m		h m		h m	°	°
11. 10	21. 42. 50	10. 30	·1013					
	***	11. 30	·1017					
11. 43	42. 0	11. 43	·1023					
	***	13. 53	·1031					
12. 2	44. 0	14. 15	·1026					
	***	14. 45	·1030					
12. 46	42. 10	15. 52	·1036					
	***	16. 5	·1034					
13. 17	45. 20	16. 14	·1038					
	***	16. 22	·1033					
14. 19	41. 20	16. 53	·1034					
	***	17. 0	·1030					
15. 40	44. 30	17. 45	·1037					
	***	18. 40	·1040					
16. 17	40. 0	19. 21	·1038					
	***	19. 32	·1043					
17. 17	40. 0	19. 38	·1039					
	***	21. 57	·1038					
17. 36	38. 5	22. 15	·1030					
	***	23. 30	·1028					
18. 7	37. 50	23. 51	·1032					
	***	23. 59	·1028					
19. 46	42. 20							
	***							
21. 39	41. 10							
	***							
23. 30	45. 50							
23. 59	47. 35							
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
0. 0	21. 47. 35	0. 0	·1028	0. 24	·01649	1. 40	65 ·0	66 ·4
1. 17	48. 15	1. 22	·1040	3. 10	·01432	3. 40	67 ·0	68 ·0
1. 44	47. 50	1. 46	·1039	6. 43	·00860	9. 40	70 ·0	70 ·5
2. 47	47. 50		***	7. 45	{ ·00712	21. 40	65 ·5	67 ·0
2. 55	47. 0	2. 51	·1048		{ ·00820			
5. 33	44. 20	2. 55	·1046	10. 28	·00799			
6. 0	43. 55	3. 21	·1045	11. 12	·00780			
7. 24	45. 50	3. 41	·1050	13. 38	·00842			
7. 54	42. 35	4. 18	·1038	14. 17	·00918			
8. 40	41. 40	4. 33	·1042	17. 47	·01404			
9. 4	42. 45	4. 47	·1037	17. 57	·01373			
9. 17	44. 30	5. 22	·1034	19. 46	·01512			
10. 3	43. 40	5. 35	·1039	21. 40	·01600			
11. 7	45. 45	6. 7	·1031	23. 28	·01600			
12. 2	45. 10	6. 13	·1034	23. 59	·01569			
12. 15	45. 55	6. 28	·1031					
12. 57	42. 15	6. 50	·1036					
13. 25	46. 30	7. 10	·1031					
14. 13	39. 50	8. 0	·1040					
	***	8. 45	·1039					
16. 43	42. 10	9. 0	·1037					
17. 11	41. 35	9. 15	·1042					
17. 57	42. 40	9. 26	·1040					
18. 10	42. 10	9. 58	·1046					
19. 47	40. 55	10. 10	·1039					
20. 25	42. 35	10. 50	·1042					
20. 43	42. 0	11. 4	·1046					
21. 6	42. 45	13. 27	·1048					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Aug. 8 h m	° ′ ″
22. 4	21. 44. 0
22. 13	45. 0
23. 19	46. 30
23. 59	47. 55
Aug. 9	
0. 0	21. 48. 0
0. 40	47. 20
0. 53	47. 30
1. 2	48. 35
1. 17	47. 50
2. 13	49. 0
2. 25	48. 10
3. 39	47. 20
4. 6	40. 0
4. 36	43. 50
5. 33	44. 10
6. 18	42. 55
11. 14	44. 5
12. 51	44. 15
13. 59	43. 0
15. 16	41. 35
15. 38	42. 50
17. 13	42. 0
19. 46	38. 50
19. 52	39. 40
19. 56	39. 5
20. 7	40. 30
20. 16	39. 20
20. 25	41. 0
20. 45	40. 10
21. 17	42. 30
21. 40	42. 30
22. 48	45. 20
23. 59	46. 0
Aug. 10	
0. 0	21. 46. 0
0. 13	45. 55
0. 42	46. 30
1. 40	46. 10
1. 54	45. 30
2. 18	45. 20
4. 23	43. 15
5. 59	40. 40
7. 17	42. 10
9. 17	43. 15
11. 10	43. 10
11. 30	44. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 8 h m	
13. 29	·1054
16. 25	·1053
20. 10	·1053
21. 30	·1051
21. 37	·1054
21. 51	·1056
23. 2	·1069
23. 9	·1075
23. 59	·1074
Aug. 9	
0. 0	·1074
0. 56	·1044
1. 7	·1047
1. 17	·1046
	(†)
4. 33	·1051
4. 57	·1038
5. 22	·1035
5. 33	·1030
6. 12	·1031
6. 35	·1034
7. 15	·1031
	***
9. 12	·1034
9. 48	·1030
9. 58	·1032
10. 52	·1032
11. 55	·1031
12. 7	·1032
12. 30	·1030
13. 30	·1034
13. 48	·1034
14. 26	·1037
14. 28	·1032
14. 53	·1037
15. 0	·1035
15. 45	·1034
16. 30	·1040
18. 56	·1036
19. 27	·1039
22. 36	·1023
22. 42	·1024
23. 59	·1021
Aug. 10	
0. 0	·1021
0. 20	·1021
0. 25	·1020
0. 54	·1024
2. 45	·1027
2. 53	·1026
3. 39	·1031
3. 45	·1028
4. 52	·1032
6. 22	·1032
6. 29	·1027
7. 17	·1025

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Aug. 9 h m	
0. 57	·01517
2. 13	·01520
4. 0	·01443
5. 5	·01280
7. 10	·00830
	·00897
9. 25	·00864
10. 29	·00837
11. 17	·00830
13. 13	·00880
14. 58	·01102
16. 30	·01336
18. 51	·01712
19. 2	·01730
19. 7	·01706
19. 27	·01710
19. 33	·01650
20. 28	·01792
21. 47	·01668
22. 22	·01620
	(†)
23. 43	·01522
23. 58	·01510
Aug. 10	
0. 0	·01576
0. 30	·01510
2. 32	·01172
3. 24	·00933
	·01038
7. 28	·01090
8. 32	·01059
10. 32	·01018
13. 5	·01107
14. 13	·01192
15. 10	·01296
18. 58	·01850

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 9 h m	°	°
1. 40	67·0	68·0
3. 40	69·0	69·5
9. 40	72·0	72·5
22. 30	68·0	69·5
Aug. 10		
9. 10	77·5	79·0
21. 40	71·0	72·0

Göttingen Mean Solar Time.	Western Declination.
Aug. 10 h m	° ′ ″
11. 36	21. 43. 45
11. 54	44. 10
12. 32	43. 40
14. 47	42. 20
15. 0	42. 45
15. 17	42. 5
15. 39	42. 15
15. 50	41. 20
16. 30	41. 30
17. 29	39. 30
17. 39	40. 0
17. 47	39. 40
19. 32	39. 30
20. 2	39. 0
21. 9	40. 30
21. 57	42. 50
23. 17	49. 30
23. 59	51. 0
Aug. 11	
0. 0	21. 51. 5
1. 0	53. 0
2. 15	52. 35
2. 18	51. 0
2. 40	53. 0
3. 48	47. 50
3. 59	49. 30
4. 29	47. 50
4. 44	48. 0
5. 6	44. 15
6. 10	42. 0
6. 15	44. 50
	***
7. 10	43. 40
7. 40	40. 30
7. 57	42. 0
8. 17	41. 0
9. 33	40. 30
10. 16	41. 30
10. 46	37. 30
11. 7	41. 35
11. 29	40. 0
11. 58	43. 30
12. 16	41. 35
	***
13. 26	40. 10

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 10 h m	
7. 45	·1024
8. 20	·1025
8. 45	·1020
9. 56	·1022
10. 30	·1019
10. 45	·1020
11. 0	·1022
12. 21	·1018
12. 37	·1019
	***
14. 30	·1016
	***
15. 30	·1010
	***
16. 7	·1011
	***
16. 30	·1010
	***
18. 0	·1011
	***
20. 32	·1021
21. 22	·1018
	***
21. 37	·1009
22. 37	·1002
22. 40	·1006
23. 0	·1001
23. 8	·1003
23. 22	·1001
23. 30	·1004
Aug. 11	
0. 35	·1010
1. 7	·1015
1. 17	·1013
1. 30	·1004
1. 45	·0996
1. 51	·1007
2. 40	·0980
2. 50	·0982
3. 9	·0999
3. 34	·0996
3. 44	·0993
3. 51	·1005
3. 55	·1006
4. 5	·0995
4. 10	·1004
4. 22	·0994
4. 37	·0997
4. 39	·1008
4. 53	·0997
5. 15	·1002
5. 19	·1009
5. 36	·1028
6. 11	·1043
6. 22	·1055
6. 36	·1040
7. 9	·1033

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Aug. 10 h m	
20. 9	·01812
21. 40	·01810
	·01786
23. 59	·01773
Aug. 11	
0. 46	(†)
1. 32	·01721
2. 50	·01630
3. 49	·01372
	·01536
	·01532
4. 39	·01143
	·01169
5. 46	·01170
5. 55	·01188
6. 14	·01156
	·01166
6. 51	·01137
7. 5	·01137
7. 26	·01129
7. 40	·01130
7. 56	·01103
9. 26	·01104
11. 28	·01227
13. 43	·01500
14. 32	·01629
15. 32	·01819
16. 2	·01788
18. 17	·01760
22. 15	·01767
22. 50	·01780

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 11 h m	°	°
1. 40	74·5	75·5
3. 40	77·5	78·0
9. 40	77·0	78·5
21. 40	69·0	70·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 11		Aug. 11		Aug. 11				
h m	° ′ ″	h m		h m		h m	°	°
13. 42	21. 42. 15	7. 19	·1038	23. 54	·01756			
	***	7. 22	·1030					
15. 10	39. 50	7. 32	·1042					
	***	7. 39	·1037					
15. 51	43. 5	7. 52	·1043					
	***	8. 11	·1037					
16. 45	41. 0	8. 21	·1042					
	***	9. 0	·1034					
17. 16	41. 5	9. 50	·1041					
	***	10. 0	·1037					
20. 2	40. 30	10. 20	·1044					
22. 0	44. 10	10. 29	·1045					
23. 15	48. 15	10. 49	·1059					
23. 47	49. 30	10. 55	·1058					
		11. 12	·1045					
		11. 30	·1044					
		11. 39	·1049					
		11. 50	·1046					
		13. 20	·1045					
		13. 37	·1049					
		13. 49	·1048					
		14. 7	·1051					
		15. 52	·1050					
		16. 30	·1051					
		18. 21	·1052					
		20. 0	·1043					
		20. 34	·1044					
		21. 23	·1039					
		22. 30	·1032					
		22. 54	·1030					
		23. 45	·1029					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 2	21. 50. 55	0. 34	·1027	0. 0	·01746	1. 40	72 ·5	73 ·0
0. 58	51. 20	1. 0	·1029	1. 10	·01670	3. 40	75 ·0	75 ·0
	***	1. 52	·1037	2. 44	·01462	9. 40	73 ·0	74 ·0
1. 57	50. 30	2. 24	·1038	3. 55	·01217	21. 40	67 ·5	68 ·0
	***	2. 45	·1031	4. 29	·01047			
3. 40	45. 35	3. 4	·1036	4. 57	·00946			
	***	3. 30	·1032		·01036			
5. 42	43. 45	4. 15	·1030	8. 6	·00918			
	***	4. 30	·1033	9. 17	·00940			
9. 59	44. 30	4. 45	·1028	10. 52	·01066			
10. 46	42. 0	4. 52	·1031	15. 42	·01762			
	***	5. 4	·1028	16. 0	·01740			
11. 47	44. 30	6. 20	·1034	20. 5	·01737			
	***	6. 38	·1030	22. 17	·01756			
13. 59	44. 0	6. 50	·1034	23. 11	·01728			
14. 12	44. 50	7. 5	·1034	23. 59	·01749			
14. 16	43. 30	7. 22	·1042					
	***	8. 5	·1043					
16. 14	44. 10	8. 35	·1050					
	(†)	10. 0	·1054					
18. 58	42. 10	10. 19	·1069					
20. 40	41. 55	10. 45	·1055					
21. 17	42. 30	11. 15	·1052					
23. 27	48. 30	13. 30	·1058					
23. 59	49. 15	14. 7	·1061					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Aug. 12						
h m	° ′ ″	h m		h m		h m	°	°
		16. 34	·1062					
		17. 50	·1059					
		18. 37	·1062					
		21. 0	·1048					
		23. 0	·1032					
		23. 40	·1034					
		23. 59	·1037					
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 0	21. 49. 25	0. 0	·1037	0. 19	·01560	1. 40	73 ·0	73 ·0
1. 0	50. 0	0. 24	·1036	1. 20	·01412	3. 40	76 ·0	77 ·0
2. 45	47. 15	0. 52	·1037	2. 0	·01240	9. 40	75 ·5	76 ·0
4. 36	42. 10	1. 0	·1029	2. 39	·01040	21. 40	68 ·0	69 ·0
5. 35	40. 25	3. 30	·1018	5. 32	·01045			
8. 15	43. 15	3. 54	·0984	7. 44	·00997			
9. 44	42. 40	4. 41	·0983	8. 47	·01003			
10. 29	44. 15	4. 46	·0979	11. 13	·01157			
11. 11	43. 35	5. 20	·0980	13. 40	·01430			
12. 11	44. 10	5. 24	·0974	15. 59	·01786			
12. 57	44. 10	5. 30	·0975	19. 9	·01746			
13. 31	43. 20	5. 34	·0982	20. 48	·01747			
15. 7	42. 45	5. 55	·0981	22. 30	·01749			
15. 55	44. 0	6. 22	·0984	22. 54	·01759			
16. 55	42. 0		(†)	23. 56	·01754			
17. 31	44. 0	7. 40	·0992					
18. 49	41. 50	7. 56	·0998					
19. 2	40. 15	8. 15	·0996					
19. 28	41. 0	8. 37	·0997					
19. 44	39. 10	8. 51	·1002					
20. 1	41. 10	8. 57	·1001					
20. 16	40. 30	9. 4	·1004					
21. 30	44. 30	9. 21	·1000					
21. 55	43. 10	11. 0	·1009					
23. 42	51. 10	13. 30	·1019					
23. 59	51. 40	13. 58	·1019					
		15. 10	·1022					
		16. 0	·1024					
		16. 35	·1028					
		17. 5	·1024					
		18. 37	·1035					
		19. 0	·1034					
		19. 30	·1039					
		20. 13	·1033					
		20. 27	·1036					
		21. 37	·1036					
		22. 6	·1030					
		22. 21	·1029					
		23. 15	·1015					
		23. 32	·1010					
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 0	21. 51. 40	0. 7	·1014	0. 28	·01729	1. 40	71 ·0	72 ·0
0. 41	52. 30	0. 39	·1013	1. 6	·01690	3. 40	73 ·0	73 ·5
3. 28	47. 0	1. 0	·1007	1. 50	·01612	9. 40	69 ·0	70 ·0
4. 53	43. 25	3. 7	·1010	2. 34	·01498	21. 40	66 ·0	67 ·0
	***	3. 45	·1016	3. 57	·01169			
6. 46	45. 30	4. 10	·1016	5. 19	·00909			
	***	4. 30	·1010		·01000			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 14		Aug. 14		Aug. 14		h m	°	°
h m	° ′ ″	h m		h m				
9. 16	21. 45. 30	5. 7	·1009	6. 39	·00898			
	***	5. 32	·1020	8. 21	·00912			
9. 32	42. 30	6. 52	·1019	9. 43	·01002			
	***	7. 5	·1024	10. 30	·01087			
9. 46	44. 20	7. 22	·1021	14. 43	·01687			
	***	7. 40	·1024					
9. 55	42. 0	7. 52	·1028	21. 9	·01697			
	***	9. 22	·1029		·01677			
10. 0	42. 30	9. 36	·1035	22. 27	·01686			
	***	10. 0	·1033	23. 47	·01623			
10. 7	45. 30	10. 22	·1037					
	***	11. 7	·1034					
10. 44	44. 0	13. 24	·1037					
	***	13. 50	·1043					
13. 21	45. 30	15. 15	·1038					
13. 43	48. 30	16. 2	·1044					
	***	19. 30	·1042					
14. 32	43. 30	19. 56	·1031					
	***	20. 15	·1032					
15. 40	43. 0	20. 37	·1026					
	***	21. 15	·1030					
16. 44	41. 15	23. 36	·1014					
	***							
18. 40	40. 30							
19. 21	39. 0							
19. 51	39. 35							
	***							
22. 15	47. 0							
23. 40	49. 30							
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
	(†)		(†)	0. 0	·01583	1. 40	·70	·70 ·0
1. 40	21. 52. 43*	1. 40	·1012*	1. 3	·01460	3. 40	·72	·73 ·0
1. 56	53. 30	1. 54	·1007	1. 47	·01326	9. 40	·72	·73 ·0
	***		***	3. 46	·00817	21. 40	·63	·64 ·0
5. 42	43. 30	3. 48	·1008		·00916			
6. 45	42. 50		***	6. 12	·00909			
	(†)	4. 47	·1005	7. 28	·00877			
9. 2	43. 55		***	10. 6	·00860			
	***	4. 36	·1010	10. 48	·00892			
12. 0	45. 30		***	13. 7	·01189			
	***	5. 29	·1010	14. 13	·01378			
15. 35	43. 10		***	15. 47	·01709			
	***	6. 9	·1015	16. 35	·01670			
16. 6	45. 30		***	21. 43	·01617			
	***	6. 33	·1014	22. 11	·01636			
16. 52	41. 55		***	22. 29	·01629			
	***	6. 44	·1015	22. 48	·01648			
18. 55	42. 0		(†)	23. 59	·01606			
	***	9. 2	·1019					
19. 7	43. 10	10. 4	·1019					
	***	11. 33	·1024					
19. 28	41. 40		***					
	***	16. 0	·1046					
20. 44	41. 40	16. 32	·1051					
	***	16. 54	·1050					
20. 57	42. 30		***					
	***	18. 33	·1054					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 15		Aug. 15						
h m	° ′ ″	h m		h m		h m	°	°
21. 4	21. 41. 55	21. 38	·1046					
	***		***					
21. 30	44. 0	21. 48	·1038					
	***		***					
21. 45	49. 35	21. 58	·1040					
	***		***					
21. 57	48. 10	22. 13	·1019					
	***		***					
22. 32	53. 35	23. 2	·1028					
	***	23. 14	·1032					
23. 15	54. 30		***					
	***	23. 46	·1033					
23. 59	53. 15	23. 59	·1037					
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 41	21. 52. 5	0. 35	·1025	0. 28	·01542	1. 40	·68	·69 ·0
1. 28	54. 30	1. 17	·1025	1. 21	·01430	3. 40	·70	·71 ·0
2. 40	50. 30	1. 37	·1021	2. 14	·01240	9. 40	71 ·0	·72 ·0
2. 54	52. 0	2. 6	·1026	3. 30	·00841	23. 22	·64	·65 ·0
3. 12	50. 50	2. 25	·1022	3. 34	·00912			
3. 39	51. 10	2. 39	·1030	5. 18	·00930			
4. 0	49. 55	2. 49	·1030	6. 55	·00886			
4. 17	46. 55	2. 58	·1030	7. 21	·00877			
4. 36	46. 20	3. 9	·1026	8. 20	·00846			
5. 20	43. 45	3. 34	·1022	9. 47	·00844			
5. 44	44. 15	3. 45	·1014	11. 16	·00921			
7. 2	43. 45	4. 11	·1022	15. 9	·01296			
9. 22	45. 30	4. 37	·1012	16. 51	·01512			
10. 1	43. 10	5. 32	·1027	18. 56	·01740			
	***		***	19. 10	·01723			
12. 20	44. 0	8. 0	·1029	21. 10	·01737			
12. 41	46. 20	8. 53	·1032	22. 39	·01710			
13. 6	44. 30	9. 4	·1037	23. 59	·01708			
	***	9. 36	·1039					
13. 42	45. 0	9. 42	·1037					
	***	11. 6	·1042					
14. 12	46. 10	11. 37	·1046					
14. 32	48. 50	11. 50	·1040					
15. 5	45. 0	12. 0	·1044					
15. 50	42. 50	13. 36	·1052					
16. 18	43. 20	13. 57	·1043					
17. 1	41. 35	14. 6	·1050					
18. 0	42. 25	14. 15	·1047					
19. 25	42. 15	14. 20	·1056					
22. 20	46. 25	14. 25	·1055					
23. 54	50. 30	14. 30	·1050					
		15. 52	·1053					
		18. 0	·1054					
		21. 40	·1050					
		21. 54	·1054					
		23. 22	·1053					
		23. 24	·1056					
		23. 32	·1056					
		Aug. 17		Aug. 17		Aug. 17		
		0. 27	·1025	0. 13	·01692	9. 15	·68	·69 ·0
		0. 57	·1023	3. 5	·01747	21. 40	·63	·65 ·0
		1. 10	·1020	4. 1	·01709			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

August 17. At the end of this day the Declination Magnet was found resting against the surrounding copper bar, and the magnetic trace was a straight line.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 17 h m		Aug. 17 h m		h m	°	°
		1. 47	·1017	5. 34	·01550			
		2. 0	·1015	8. 28	·01330			
		2. 13	·1010	10. 46	·01259			
		2. 40	·1009	14. 0	·01378			
		3. 5	·1005	16. 29	·01619			
		3. 10	·1005	17. 32	·01738			
		3. 32	·1002		·01695			
		3. 47	·1001	17. 56	·01690			
		4. 33	·0995	17. 58	·01628			
		4. 45	·1001	18. 44	·01703			
		5. 7	·1002	18. 46	·01694			
		5. 15	·1001	23. 1	·01656			
		6. 30	·1011	23. 59	·01666			
		6. 40	·1012					
		6. 55	·1015					
		8. 7	·1022					
		10. 6	·1024					
		10. 34	·1028					
		11. 0	·1034					
		11. 8	·1036					
		11. 30	·1031					
		15. 0	·1021					
		17. 35	·1024					
		19. 30	·1022					
		20. 10	·1023					
		20. 30	·1028					
		21. 2	·1030					
		21. 13	·1029					
		21. 37	·1034					
		22. 22	·1033					
		22. 37	·1036					
		22. 55	·1033					
		23. 7	·1034					
		23. 30	·1031					
		23. 59	·1028					
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 40	21. 48. 45	0. 0	·1028		(†)	1. 40	64 ·6	65 ·4
1. 17	48. 10	0. 50	·1038	1. 2	·01690	3. 40	65 ·0	66 ·0
2. 25	49. 0	1. 6	·1037	1. 30	·01677	9. 40	65 ·0	66 ·0
3. 32	47. 20	1. 38	·1040	3. 22	·01727	21. 40	62 ·5	64 ·0
6. 11	42. 30	2. 10	·1036	5. 29	·01609			
9. 55	43. 15	2. 22	·1038	7. 31	·01537			
	***	2. 40	·1034	8. 44	·01530			
12. 47	42. 0		***	10. 52	·01550			
	***	4. 5	·1039	14. 3	·01712			
14. 14	42. 30		***		·01650			
	***	5. 0	·1036	15. 30	·01652			
17. 55	38. 35		***	15. 39	·01617			
18. 14	39. 30	5. 22	·1034	16. 43	·01664			
19. 3	39. 30		***		·01638			
19. 36	41. 20	7. 0	·1038	17. 56	·01670			
20. 5	38. 30		***	17. 59	·01658			
21. 0	39. 30	7. 15	·1042	18. 43	·01672			
21. 27	42. 30		***	18. 46	·01656			
22. 3	42. 0	9. 21	·1044	19. 14	·01665			
23. 41	46. 20		***	19. 46	·01659			
23. 59	46. 30	10. 27	·1044	19. 50	·01643			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 18 h m		Aug. 18 h m		h m	°	°
		10. 32	·1042	23. 59	·01590			
			***					
		13. 30	·1051					
			***					
		13. 37	·1050					
			***					
		13. 43	·1056					
			***					
		14. 0	·1053					
			***					
		15. 30	·1054					
			***					
		15. 40	·1058					
			***					
		17. 45	·1059					
			***					
		18. 15	·1054					
			***					
		18. 42	·1054					
			***					
		19. 7	·1050					
			***					
		20. 0	·1050					
			***					
		20. 20	·1052					
			***					
		22. 0	·1044					
			***					
		23. 30	·1040					
			***					
		23. 59	·1035					
Aug. 19		Aug. 19				Aug. 19		
0. 0	21. 46. 30	0. 0	·1035		(†)	1. 40	64 ·0	65 ·0
1. 31	49. 10	1. 8	·1038	1. 1	·01549	3. 40	65 ·0	66 ·0
	***	1. 30	·1042	2. 31	·01509	9. 40	65 ·5	66 ·2
3. 6	48. 30	1. 51	·1038	4. 54	·01320	21. 40	62 ·5	64 ·0
5. 12	46. 0	2. 20	·1042	6. 13	·01256			
5. 44	44. 40	2. 30	·1039	6. 25	·01233			
6. 10	45. 10	2. 37	·1045	7. 14	·01190			
7. 0	45. 20	2. 41	·1042	10. 45	·01117			
8. 32	44. 30	2. 48	·1043	17. 54	·01460			
9. 10	40. 5	2. 52	·1040	18. 14	·01436			
10. 10	42. 40	3. 16	·1044	19. 39	·01502			
10. 32	42. 10	3. 40	·1038	21. 22	·01529			
10. 46	43. 0	3. 54	·1044	23. 37	·01496			
11. 27	42. 20	4. 2	·1040	23. 59	·01450			
11. 36	42. 55	4. 32	·1043					
13. 48	42. 0	4. 47	·1038					
14. 30	42. 45	5. 10	·1042					
14. 50	41. 30	5. 45	·1040					
15. 52	42. 20	5. 52	·1043					
16. 28	41. 15	5. 57	·1041					
17. 15	43. 25	6. 8	·1046					
20. 17	40. 30	6. 22	·1040					
21. 21	42. 30	7. 2	·1054					
22. 29	45. 30	7. 22	·1050					
22. 46	47. 10	7. 35	·1050					
23. 59	49. 30	7. 55	·1052					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 19 h m		h m		h m	°	°
		8. 24	·1050					
		8. 30	·1053					
		8. 47	·1048					
		9. 0	·1057					
		9. 31	·1052					
		10. 6	·1051					
		10. 34	·1046					
		10. 54	·1047					
		11. 45	·1045					
		13. 25	·1048					
		13. 45	·1046					
		14. 11	·1047					
		14. 26	·1050					
		15. 32	·1047					
		16. 0	·1051					
		16. 45	·1052					
		17. 24	·1050					
		17. 52	·1053					
		20. 0	·1051					
		21. 13	·1044					
		21. 25	·1046 ***					
		22. 24	·1039 ***					
		22. 37	·1030 ***					
		23. 14	·1036 ***					
		23. 45	·1030 ***					
		23. 59	·1028					
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
0. 0	21. 49. 30	0. 0	·1028		(†)	1. 40	65 ·0	63 ·0
0. 48	49. 30	1. 53	·1030	1. 1	·01432	3. 40	65 ·0	66 ·0
1. 33	47. 55 ***	2. 30	·1034	1. 43	·01412	9. 40	64 ·0	65 ·5
		2. 35	·1045	5. 3	·01150	21. 40	63 ·0	63 ·5
4. 15	46. 20 ***	2. 37	·1033	6. 45	·01067			
		2. 40	·1042	7. 42	·01043			
10. 7	43. 30	2. 44	·1033	8. 46	·01060			
10. 55	41. 20	2. 49	·1043	11. 16	·01150			
11. 24	41. 20	2. 51	·1034	15. 4	·01163			
11. 31	40. 30	2. 57	·1049	16. 30	·01258			
11. 47	41. 30	3. 3	·1037	17. 1	·01270			
12. 1	43. 30	3. 7	·1049	17. 15	·01250			
12. 16	43. 0	3. 13	·1039	19. 28	·01339			
12. 34	41. 50	3. 21	·1047	21. 54	·01359			
12. 56	41. 0	3. 26	·1042 ***	23. 31	·01338			
13. 11	42. 10							
13. 32	42. 15	4. 0	·1036 ***					
13. 46	40. 30							
13. 54	41. 40	4. 37	·1044 ***					
14. 25	42. 0							
15. 5	39. 50	5. 30	·1045 ***					
15. 17	41. 5							
15. 30	39. 5	5. 54	·1050 ***					
15. 41	40. 30							
16. 32	41. 0	6. 22	·1053 ***					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 20 h m	° ′ ″	Aug. 20 h m		h m		h m	°	°
16. 57	21. 40. 35	9. 18	·1057 ***					
17. 13	41. 0							
17. 42	39. 30	10. 35	·1054					
18. 1	40. 0	10. 42	·1056					
18. 17	39. 0	11. 9	·1053					
18. 30	40. 30	11. 20	·1055					
18. 33	40. 30	12. 0	·1050					
18. 58	42. 55 ***	12. 22	·1054					
		13. 52	·1060					
20. 17	39. 50	14. 7	·1056					
20. 29	40. 50	14. 25	·1059 ***					
20. 35	40. 10							
22. 33	47. 0 (†)	15. 33	·1054 ***					
23. 43	46. 10	15. 52	·1057 ***					
23. 59	46. 55							
		19. 30	·1044 ***					
		20. 43	·1045 ***					
		22. 30	·1032					
		23. 59	·1036					
Aug. 21		Aug. 21		Aug. 21		Aug. 21		
0. 0	21. 47. 0	0. 0	·1036	0. 0	·01118	1. 40	63 ·0	64 ·0
1. 3	49. 40	0. 18	·1043	0. 58	·01097	3. 40	64 ·0	65 ·0
1. 22	48. 50	0. 45	·1042	2. 26	·01058	9. 40	65 ·0	66 ·2
2. 12	49. 30	1. 2	·1044	3. 22	·00986	21. 40	63 ·0	64 ·0
2. 16	48. 15	1. 21	·1038	5. 18	·00767			
2. 25	50. 0 ***	1. 30	·1044	7. 50	·00524			
		1. 53	·1042	9. 40	·00365			
3. 26	47. 0	2. 9	·1042	10. 35	·00390			
3. 32	45. 50	2. 15	·1038	10. 54	·00282			
4. 13	44. 15	2. 25	·1047	12. 42	·00338			
5. 24	45. 5	2. 40	·1049	13. 57	·00361			
5. 33	44. 0	2. 55	·1034	16. 7	·00444			
5. 43	44. 20	3. 13	·1042	16. 55	·00523			
5. 45	43. 10	3. 17	·1039	18. 50	·00650			
6. 0	41. 10	3. 27	·1044	20. 20	·00748			
7. 4	43. 10	3. 35	·1042	22. 27	·00809			
8. 0	44. 0	3. 45	·1047	23. 14	·00801			
8. 16	43. 10	4. 7	·1043					
8. 57	42. 45	4. 20	·1044					
9. 6	41. 50	4. 25	·1040					
9. 14	42. 10	4. 33	·1043					
9. 17	41. 30	4. 40	·1040					
10. 36	44. 10	5. 10	·1044					
11. 15	43. 45	5. 16	·1040					
11. 46	43. 0	5. 28	·1045					
12. 13	45. 0	5. 35	·1038					
12. 47	40. 35	5. 37	·1043					
13. 29	42. 0	5. 55	·1035					
14. 31	39. 50	6. 21	·1037					
14. 52	43. 0	6. 39	·1045					
15. 0	42. 35	6. 52	·1042					
15. 17	45. 15	7. 40	·1050					
15. 53	43. 30	8. 28	·1047					
16. 13	40. 0	8. 51	·1044					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 21		Aug. 21						
h m	° ′ ″	h m		h m		h m	°	°
16. 40	21. 40. 15	9. 8	·1045					
16. 47	41. 40	9. 17	·1047					
17. 0	41. 20	9. 40	·1045					
17. 14	42. 0	10. 7	·1044					
17. 17	41. 20	11. 0	·1037					
17. 32	41. 55	12. 6	·1055					
19. 43	39. 45	12. 52	·1059					
19. 47	41. 50	13. 20	·1051					
19. 57	39. 40	13. 37	·1050					
21. 13	40. 40	13. 43	·1048					
22. 38	45. 15	14. 4	·1048					
23. 1	46. 0	14. 15	·1054					
23. 13	46. 55	14. 39	·1052					
23. 59	48. 0	14. 56	·1053					
		15. 13	·1047					
		15. 54	·1056					
		16. 5	·1054					
		16. 11	·1055					
		16. 30	·1051					
		19. 3	·1051					
		19. 26	·1050					
		20. 37	·1052					
		21. 30	·1048					
		22. 37	·1042					
		23. 0	·1044					
		23. 48	·1036					
Aug. 22		Aug. 22		Aug. 22		Aug. 22		
0. 0	21. 48. 5	0. 35	·1028	0. 43	·00438	1. 40	65 ·0	66 ·0
1. 27	49. 0	0. 52	·1037	1. 0	·00423	3. 40	66 ·0	67 ·0
2. 4	49. 30	1. 30	·1043	1. 25	·00349	9. 40	65 ·0	66 ·0
4. 30	45. 30		***	1. 43	·00381	21. 40	57 ·0	58 ·5
4. 47	45. 30	3. 39	·1043	3. 1	·00386			
5. 0	44. 10	3. 57	·1039	4. 27	·00382			
5. 20	43. 5	4. 5	·1042	7. 7	·00443			
6. 0	43. 0	4. 22	·1040	9. 18	·00417			
6. 20	43. 30	4. 32	·1042	9. 40	·00371			
6. 30	36. 30	4. 40	·1040	9. 50	·00385			
6. 57	36. 30	4. 50	·1044	10. 13	·00390			
7. 16	34. 50	5. 7	·1037	10. 28	·00415			
7. 30	37. 10	5. 22	·1042	11. 12	·00427			
7. 45	38. 45	5. 35	·1037	13. 5	·00493			
8. 13	37. 0	5. 50	·1042	13. 22	·00584			
8. 21	39. 30	6. 4	·1038	13. 37	·00628			
8. 42	35. 40	6. 35	·1042	14. 15	·00695			
9. 2	42. 20	6. 49	·1032	15. 27	·00877			
9. 24	35. 45	7. 7	·1047	17. 18	{·01284			
9. 42	37. 45	7. 17	·1044		{·01265			
9. 57	37. 30	7. 30	·1043	18. 11	·01258			
10. 12	42. 5	7. 51	·1035	18. 54	·01283			
10. 43	37. 30	7. 55	·1028	19. 52	·01271			
11. 3	32. 50	8. 10	·1033	21. 10	·01334			
11. 21	34. 0	8. 21	·1030	21. 51	{·01343			
11. 28	36. 50	8. 33	·1041		{·01195			
11. 40	34. 40	8. 55	·1038	23. 14	·01297			
11. 48	35. 50	9. 10	·1050	23. 45	·01290			
11. 55	35. 30	9. 35	·1028	23. 59	·01296			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 22		Aug. 22						
h m	° ′ ″	h m		h m		h m	°	°
12. 28	21. 41. 30	9. 42	·1032					
12. 55	36. 45	9. 54	·1021					
13. 20	44. 35	10. 0	·1022					
13. 32	42. 25	10. 6	·1017					
13. 52	42. 35	10. 20	·1021					
14. 15	39. 30	10. 33	·1038					
	***	10. 37	·1037					
14. 42	44. 10	10. 45	·1017					
	***	11. 9	·1030					
15. 13	41. 40	11. 20	·1029					
15. 26	42. 50	11. 25	·1026					
	***	11. 30	·1018					
15. 47	41. 30	11. 40	·1024					
16. 18	44. 40	11. 54	·1021					
16. 36	47. 45	12. 40	·1036					
16. 47	47. 30	12. 43	·1032					
16. 52	48. 30	13. 6	·1032					
17. 15	45. 15	13. 48	·1066					
17. 35	46. 45	13. 54	·1056					
17. 54	44. 30	14. 5	·1060					
18. 15	45. 0	14. 11	·1055					
18. 24	52. 15	14. 24	·1055					
18. 28	52. 10	14. 37	·1050					
18. 40	54. 50	14. 49	·1050					
19. 24	46. 5	15. 0	·1056					
19. 40	38. 45	15. 10	·1058					
20. 26	39. 30	15. 22	·1055					
20. 43	41. 50	15. 40	·1057					
20. 47	40. 0	16. 27	·1043					
21. 20	41. 10	16. 50	·1049					
21. 31	39. 30	17. 5	·1042					
22. 3	41. 0	17. 22	·1050					
22. 15	42. 45	17. 30	·1049					
22. 52	44. 0	18. 32	·1007					
22. 57	42. 0	19. 2	·1037					
23. 3	45. 30	19. 10	·1032					
23. 10	44. 0	19. 32	·1039					
23. 16	45. 50	19. 51	·1035					
23. 22	48. 30	19. 55	·1024					
23. 36	48. 10	20. 11	·1034					
		20. 21	·1030					
			***					
		20. 34	·1040					
		20. 54	·1037					
		21. 3	·1030					
		21. 7	·1036					
		21. 15	·1036					
		21. 28	·1024					
		22. 7	·1026					
		22. 22	·1029					
		22. 30	·1025					
		23. 6	·1022					
		23. 10	·1034					
		23. 17	·1022					
		23. 30	·1044					
		23. 36	·1035					
		23. 43	·1029					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 23 h m	° ′ ″	Aug. 23 h m		Aug. 23 h m		Aug. 23 h m	°	°
0. 20	21. 48. 10	0. 26	·1031	0. 42	·01297	1. 40	59 ·0	60 ·2
0. 39	46. 40	0. 30	·1029	0. 50	·01300	3. 40	61 ·0	62 ·0
	***	0. 40	·1038	1. 22	·01261	9. 40	63 ·5	64 ·0
1. 15	52. 55	0. 53	·1044	1. 50	·01258	22. 18	59 ·8	60 ·4
1. 29	47. 40	1. 2	·1054	2. 27	·01200			
1. 43	47. 25	1. 7	·1052	3. 0	·01084			
2. 5	54. 0	1. 24	·1013	3. 15	·01063			
2. 14	52. 20	1. 40	·1020	3. 22	·01024			
2. 18	55. 20	2. 7	·1058	4. 14	·00864			
2. 24	53. 55	2. 15	·1048	4. 28	·00838			
2. 30	56. 30	2. 22	·1066	5. 44	·00533			
2. 41	54. 40	2. 29	·1051	6. 18	·00414			
2. 46	56. 0	2. 37	·1058	6. 30	·00395			
2. 55	50. 40	2. 45	·1045	7. 3	·00426			
3. 18	51. 15	2. 51	·1046	7. 47	·00427			
3. 26	48. 15	3. 7	·0994	8. 2	·00403			
3. 30	49. 5	3. 9	·0995	8. 22	·00439			
4. 13	45. 0	3. 19	·1009	8. 35	·00420			
4. 30	47. 30	3. 25	·1000	8. 44	·00362			
4. 42	46. 30	3. 45	·1025	9. 40	·00379			
4. 46	46. 50	3. 58	·1022	10. 6	·00381			
5. 3	45. 0	4. 22	·1043	10. 13	·00397			
5. 10	43. 15	4. 34	·1044	11. 22	·00368			
5. 17	43. 0	4. 50	·1033	13. 37	·00436			
5. 33	44. 30	4. 57	·1035	14. 30	·00450			
5. 43	43. 40	5. 13	·1031	16. 5	·00538			
6. 12	45. 10	5. 21	·1032	17. 7	·00598			
6. 27	43. 10	5. 30	·1045	17. 52	·00684			
6. 44	44. 10	5. 40	·1034	20. 12	·00900			
6. 54	45. 40	6. 0	·1037	21. 0	·00958			
7. 15	45. 25	6. 7	·1034	22. 2	·00986			
7. 36	48. 30	6. 21	·1040		(†)			
8. 11	28. 20	6. 45	·1040					
8. 29	49. 0	7. 0	·1048					
8. 37	42. 10	7. 10	·1042					
8. 56	34. 30	7. 26	·1049					
9. 10	35. 10	7. 30	·1062					
9. 23	34. 5	7. 39	·1060					
9. 32	38. 0	7. 44	·1072					
10. 0	39. 30	7. 47	·1070					
10. 9	41. 50	7. 54	·1049					
11. 13	40. 50	8. 21	·1112					
11. 38	42. 10	8. 26	·1109					
11. 48	40. 50	8. 30	·1107					
12. 32	41. 10	8. 39	·1054					
12. 52	39. 20	8. 45	·1054					
14. 12	40. 40	8. 51	·1045					
16. 17	40. 35	9. 10	·1049					
16. 24	41. 50	9. 20	·1041					
16. 53	42. 20	9. 31	·1041					
17. 23	41. 30	9. 36	·1045					
18. 10	42. 20	9. 40	·1025					
18. 17	41. 30	10. 2	·1010					
19. 17	41. 5	10. 7	·1029					
19. 23	40. 0	10. 28	·1026					
20. 28	40. 30	10. 37	·1032					
20. 37	42. 35	10. 45	·1030					
20. 48	41. 30	11. 2	·1032					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 23 h m	° ′ ″	Aug. 23 h m		h m		h m	°	°
20. 58	21. 43. 0	11. 8	·1026					
21. 44	43. 45	11. 43	·1030					
	(†)	11. 54	·1036					
22. 18	43. 44*	12. 5	·1033					
		12. 33	·1042					
		12. 54	·1034					
		14. 16	·1041					
		14. 26	·1038					
		16. 7	·1041					
		16. 22	·1038					
		17. 9	·1043					
		17. 22	·1039					
		18. 6	·1041					
		19. 13	·1040					
		19. 30	·1044					
		20. 10	·1039					
		20. 24	·1040					
		20. 35	·1045					
		20. 45	·1042					
		21. 12	·1042					
		21. 21	·1040					
		21. 44	·1039					
		22. 0	·1018					
		22. 45	·1023					
		23. 21	·1023					
		23. 59	·1028					
Aug. 24		Aug. 24		Aug. 24		Aug. 24		
0. 0	21. 45. 0	0. 0	·1028	0. 0	·00717	6. 54	66 ·0	66 ·0
0. 46	45. 53	0. 22	·1030	1. 2	·00658	12. 40	65 ·8	66 ·5
	(†)		(†)		(†)	13. 40	65 ·5	66 ·5
6. 44	43. 55	6. 44	·1029	6. 47	·00427	14. 40	65 ·3	66 ·0
7. 53	44. 45	7. 10	·1026	7. 28	·00456	15. 40	65 ·0	66 ·0
8. 55	42. 20	7. 22	·1026	8. 20	·00538	16. 40	64 ·8	65 ·7
	(†)	7. 37	·1022	12. 5	·00498	17. 40	64 ·5	65 ·5
11. 26	38. 40	8. 3	·1025	13. 0	·00494	18. 40	64 ·4	65 ·5
12. 22	39. 0	8. 21	·1022	13. 15	·00452	19. 40	64 ·5	65 ·5
12. 54	47. 55	8. 34	·1028	14. 8	·00465	20. 40	64 ·4	65 ·5
13. 44	41. 30	8. 57	·1020	14. 45	·00485	21. 40	64 ·8	65 ·7
14. 11	43. 0	9. 7	·1024		·00622	22. 40	65 ·1	65 ·9
14. 31	47. 0	10. 37	·1023	16. 51	·00664	23. 40	65 ·8	66 ·4
14. 40	46. 30	10. 57	·1036	18. 40	·00701			
14. 47	43. 30	11. 28	·1030	18. 48	·00770			
16. 12	42. 45	12. 0	·1034	20. 55	·00830			
16. 42	46. 0	12. 19	·1044	22. 9	·00807			
16. 58	42. 30	12. 27	·1051		(†)			
18. 16	39. 5	12. 47	·1036					
19. 49	41. 45	13. 15	·1034					
21. 14	45. 5	13. 37	·1045					
	(†)	14. 0	·1048					
21. 40	45. 27*	14. 35	·1056					
		14. 45	·1054					
		15. 3	·1059					
		15. 42	·1044					
		16. 6	·1028					
		16. 54	·1044					
		18. 0	·1028					
		18. 30	·1028					
		19. 25	·1020					

August 24. Declination. Parts of the Register were lost, and the times are inferred from the time-scale of the Horizontal Force Register, and are therefore approximate only.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 24 h m		h m		h m	°	°
		19. 52	·1011					
		21. 24	·1015					
		21. 56	·1005					
		22. 32	·1015					
			(†)					
Aug. 25		Aug. 25		Aug. 25		Aug. 25		
1. 6	21. 46. 30		(†)		(†)	0. 40	66 ·2	66 ·5
1. 52	46. 30	1. 15	·1034	1. 39	·00656	1. 40	66 ·6	67 ·1
	(†)		***	2. 41	·00624	2. 40	66 ·8	67 ·4
3. 40	44. 10	3. 0	·1030	4. 25	·00638	3. 40	67 ·0	67 ·8
	(†)		***	5. 48	{ ·00438	4. 40	67 ·2	68 ·0
7. 30	42. 20	6. 30	·1028		{ ·00517	5. 40	67 ·5	68 ·3
13. 58	40. 50		***	7. 42	·00656	6. 40	67 ·8	68 ·5
	***	9. 0	·1032	9. 48	·00676	7. 40	67 ·6	68 ·5
15. 28	43. 0	9. 30	·1028	11. 12	·00690	8. 40	67 ·5	68 ·0
	***	10. 0	·1030	13. 7	·00681	9. 40	67 ·5	68 ·0
21. 36	40. 30	10. 30	·1028	12. 28	·00675	10. 40	68 ·0	68 ·5
	***	13. 55	·1034	13. 34	·00681	11. 40	68 ·0	69 ·0
23. 17	47. 30	14. 35	·1031	15. 47	·00634	21. 40	63 ·4	65 ·2
23. 59	48. 0	18. 0	·1030	17. 20	·00680			
		19. 6	·1026	18. 5	·00734			
		19. 43	·1022	19. 16	·00838			
		20. 15	·1018	20. 12	·00941			
		22. 20	·1012	21. 2	·01003			
		23. 5	·1022	21. 13	{ ·01024			
					{ ·01113			
				22. 30	·01256			
				23. 25	·01336			
				23. 59	·01354			
Aug. 26		Aug. 26		Aug. 26		Aug. 26		
0. 27	21. 48. 0	0. 0	·1022	0. 30	·01357	1. 40	64 ·0	65 ·4
1. 47	48. 30	0. 55	·1026	1. 47	·01395	3. 40	66 ·0	67 ·0
5. 25	39. 30	3. 30	·1042	2. 59	·01341	9. 40	66 ·0	67 ·0
6. 50	42. 0	3. 41	·1028	3. 43	·01270	21. 40	64 ·2	65 ·3
7. 0	43. 30	4. 20	·1027	3. 46	·01293			
10. 29	41. 30	4. 29	·1021	6. 12	·01037			
10. 56	38. 30	5. 28	·1020	7. 10	·01025			
	***	5. 40	·1019	9. 26	·00782			
11. 24	41. 0	7. 30	·1024	10. 58	·00757			
	***	7. 42	·1026	13. 22	·00835			
12. 33	42. 10	7. 55	·1032	14. 54	·00906			
	***	9. 14	·1030	17. 10	·01238			
15. 24	40. 20	9. 30	·1032	18. 32	·01377			
	***	9. 47	·1029	20. 5	·01481			
17. 2	39. 55	10. 52	·1037	21. 22	·01390			
17. 39	42. 0	11. 15	·1034	22. 35	·01448			
18. 10	41. 50	12. 24	·1038	23. 59	·01258			
18. 56	42. 10	12. 40	·1043					
19. 22	41. 0	14. 8	·1045					
21. 32	42. 10	16. 35	·1050					
22. 15	44. 0	17. 35	·1050					
22. 54	45. 30	18. 5	·1054					
23. 41	47. 0	18. 25	·1054					
		19. 15	·1055					
		19. 40	·1052					
		21. 56	·1046					
		22. 30	·1045					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 26 h m		h m		h m	°	°
		22. 50	·1048					
		23. 35	·1044					
		23. 50	·1044					
Aug. 27		Aug. 27		Aug. 27		Aug. 27		
0. 16	21. 46. 50	0. 5	·1044	0. 23	·01331	1. 40	67 ·0	67 ·5
1. 4	47. 40	1. 33	·1042	1. 10	·01516	3. 40	69 ·0	70 ·0
2. 17	46. 30	1. 45	·1044	2. 41	·01184	9. 40	70 ·5	72 ·0
3. 24	44. 0	3. 30	·1030	3. 8	·01103	21. 40	63 ·0	65 ·0
6. 11	40. 30		***	4. 26	{ ·00745			
9. 52	42. 20	3. 48	·1030		{ ·00794			
	***		***	5. 25	·00795			
12. 40	40. 0	5. 0	·1022	7. 15	·00763			
	***		***	7. 19	·00840			
13. 26	42. 0	5. 12	·1024	8. 4	·00786			
	***		***	8. 18	·00808			
14. 40	40. 10	5. 30	·1022	9. 52	·00784			
	***		***	11. 27	·00803			
15. 54	41. 25	8. 51	·1021	13. 10	·00902			
	***	8. 50	·1022	14. 8	·00996			
19. 1	38. 0	9. 0	·1025	16. 22	·01270			
21. 41	38. 45	10. 30	·1022	18. 10	·01603			
23. 59	48. 0	11. 30	·1024	18. 40	·01601			
		11. 55	·1027	23. 40	·01548			
		13. 9	·1030	23. 59	·01507			
		13. 18	·1033					
		14. 11	·1031					
		14. 27	·1032					
		15. 45	·1032					
		18. 35	·1042					
		19. 32	·1038					
		19. 52	·1038					
		21. 0	·1031					
		22. 7	·1024					
		23. 10	·1027					
		23. 30	·1030					
		23. 55	·1027					
Aug. 28		Aug. 28		Aug. 28		Aug. 28		
0. 0	21. 48. 5		(†)	1. 0	·01500	1. 40	65 ·0	65 ·6
	(†)	1. 39	·1034	1. 47	·01516	3. 40	66 ·5	67 ·3
1. 39	49. 30		***	2. 30	·01496	9. 40	68 ·5	70 ·0
	***	4. 30	·1043	3. 55	·01285	21. 40	64 ·8	65 ·4
5. 0	41. 30		***	4. 52	·01071			
	***	4. 54	·1048	7. 5	·00729			
12. 20	42. 0		***	8. 14	{ ·00622			
	(†)	5. 10	·1044		{ ·00681			
15. 29	41. 30	5. 14	·1049	9. 32	·00683			
	***		***	10. 48	·00670			
15. 45	42. 30	6. 6	·1049	14. 37	·00657			
	***	6. 13	·1043	16. 50	·00748			
16. 22	40. 50		***	18. 30	·00917			
	***	6. 46	·1051	21. 5	·01263			
17. 3	41. 30		***	22. 0	·01338			
	***	7. 11	·1049	22. 36	·01364			
19. 11	37. 35	7. 47	·1054	23. 59	·01327			
	***	9. 22	·1049					
21. 4	39. 10	10. 0	·1042					
	***							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. OF H. F. Magnet.	Readings of Thermometers. OF V. F. Magnet.
Aug.28		Aug.28						
h m	° ′ ″	h m		h m		h m	°	°
23. 14	21. 46. 45	10. 20	·1045					
23. 59	48. 45	11. 21	·1042					
			(†)					
		16. 13	·1041					
		16. 42	·1038					
		18. 46	·1037					
		20. 15	·1029					
			***					
		23. 5	·1019					
		23. 40	·1022					
		23. 59	·1026					
Aug.29		Aug.29		Aug.29		Aug.29		
0. 0	21. 48. 50	0. 19	·1031	0. 0	·01356	1. 40	66 ·4	67 ·4
0. 23	49. 50	0. 37	·1034	1. 42	·01190	3. 40	68 ·0	68 ·5
1. 26	50. 50	2. 7	·1032	2. 34	·01082	9. 40	68 ·0	69 ·5
2. 51	47. 45	2. 32	·1029	3. 52	·00857	21. 40	60 ·5	62 ·0
4. 36	43. 0		***	6. 7	·00740			
5. 52	40. 50	4. 45	·1023	7. 10	·00726			
10. 29	41. 10		***	8. 12	·00750			
	***	7. 0	·1028	8. 50	·00760			
10. 48	40. 5	7. 30	·1026	9. 27	·00803			
11. 14	41. 45	8. 35	·1030	10. 10	·00806			
	***	10. 28	·1027	11. 26	·00918			
12. 2	42. 30	11. 23	·1032	13. 10	·01098			
	***	11. 37	·1029	14. 12	·01255			
15. 24	42. 10	11. 51	·1032	16. 0	·01576			
	***	11. 57	·1031	16. 12	·01550			
15. 43	42. 40	12. 5	·1034	19. 20	·01521			
	***	12. 30	·1633	21. 34	·01460			
16. 32	39. 50	12. 40	·1046		·01325			
	***	12. 50	·1038	22. 30	·01400			
17. 34	39. 55	15. 30	·1040	23. 3	·01425			
19. 33	38. 50	16. 3	·1043	23. 46	·01417			
20. 15	38. 30	17. 32	·1043					
22. 26	46. 0	17. 48	·1046					
	(†)	18. 20	·1043					
		18. 47	·1045					
		19. 20	·1040					
		19. 52	·1040					
		20. 54	·1037					
		21. 12	·1038					
		21. 45	·1035					
		22. 15	·1036					
		22. 38	·1034					
			(†)					
Aug.30		Aug.30		Aug.30		Aug.30		
0. 41	21. 51. 20	0. 38	·1032	0. 36	·01361	1. 40	65 ·0	66 ·0
2. 7	51. 5	1. 6	·1036	1. 28	·01258	3. 40	68 ·0	68 ·5
4. 12	45. 20	1. 35	·1035	2. 39	·01018	9. 40	69 ·5	70 ·3
4. 17	45. 25	1. 51	·1037	3. 48	·00670	22. 40	65 ·0	66 ·5
4. 28	44. 15	2. 22	·1037	5. 10	·00725			
5. 32	42. 30	2. 39	·1032	10. 27	·00687			
5. 47	42. 40	4. 2	·1023	11. 17	·00678			
6. 10	41. 50	4. 23	·1026	14. 12	·00898			
6. 55	43. 20	4. 34	·1019	15. 58	·01084			
9. 30	42. 30	4. 50	·1018	18. 7	·01291			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. OF H. F. Magnet.	Readings of Thermometers. OF V. F. Magnet.
Aug.30		Aug.30		Aug.30				
h m	° ′ ″	h m		h m		h m	°	°
10. 0	21. 38. 20	5. 24	·1025	20. 0	·01457			
10. 12	40. 0	5. 40	·1019	21. 58	·01556			
10. 20	38. 30		***	23. 9	·01541			
	***	7. 0	·1020					
10. 46	42. 0		***					
	***	8. 35	·1031					
11. 2	45. 30	9. 18	·1027					
	***	9. 40	·1026					
11. 32	42. 30	9. 55	·1024					
	***	10. 12	·1028					
13. 27	43. 10	10. 28	·1042					
	***	10. 32	·1042					
17. 7	42. 0	10. 52	·1032					
19. 10	41. 5	10. 56	·1036					
19. 25	41. 40	11. 22	·1027					
19. 37	40. 50	13. 32	·1039					
19. 45	41. 0	14. 13	·1040					
20. 7	40. 0	14. 24	·1044					
20. 15	41. 0	14. 50	·1044					
20. 30	40. 5	17. 6	·1052					
22. 16	47. 30	17. 28	·1050					
23. 36	48. 30	18. 10	·1053					
23. 43	51. 0	18. 27	·1051					
23. 48	50. 50	18. 44	·1056					
23. 57	52. 0	18. 55	·1050					
23. 59	51. 50	19. 7	·1052					
			***					
		20. 36	·1047					
		20. 47	·1043					
		21. 0	·1044					
		21. 10	·1042					
		21. 15	·1037					
		22. 0	·1034					
		22. 16	·1035					
		22. 50	·1031					
		23. 59	·1025					
Aug.31		Aug.31		Aug.31		Aug.31		
0. 0	21. 51. 30	0. 0	·1025	0. 0	·01517	8. 40	69 ·5	70 ·0
0. 10	50. 30	0. 22	·1026	1. 5	·01436	12. 40	67 ·0	68 ·2
0. 23	52. 0	0. 42	·1032	2. 12	·01298	13. 40	66 ·5	67 ·5
0. 26	51. 30	1. 18	·1034	3. 17	·01088	14. 40	65 ·5	66 ·9
0. 38	51. 50	1. 24	·1031	4. 12	·00763	15. 40	64 ·6	66 ·0
0. 41	52. 55	1. 30	·1034		·00881	16. 40	64 ·1	65 ·7
0. 47	51. 5	2. 18	·1027	4. 28	·00744	17. 40	63 ·0	65 ·0
0. 54	53. 0	2. 36	·1031		·00858	18. 40	62 ·5	64 ·0
1. 13	51. 5	2. 44	·1038	8. 2	·00881	19. 40	62 ·5	63 ·5
1. 17	52. 5	2. 57	·1020	8. 16	·00915	20. 40	61 ·0	62 ·7
	***	3. 11	·1032	10. 7	·00957	21. 40	61 ·8	63 ·3
1. 41	53. 0	3. 21	·1028	10. 59	·00997	22. 40	62 ·0	63 ·3
1. 46	52. 0	3. 26	·1018	12. 25	·01057	23. 40	63 ·3	64 ·3
	***	3. 32	·1026	15. 32	·01522			
2. 28	51. 40	3. 35	·1016	15. 55	·01556			
2. 32	53. 10	3. 39	·1019	16. 34	·01561			
2. 47	49. 0	3. 44	·1006	17. 10	·01518			
2. 59	50. 30	4. 5	·1022	17. 45	·01521			
3. 29	48. 10	5. 6	·1026	18. 14	·01539			

August 25. Declination. Parts of the Register were lost, and the times are inferred from the time-scale of the Horizontal Force Register, and are therefore only approximate.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 31		Aug. 31		Aug. 31		h m	°	°
h m	° ′ ″	h m		h m				
3. 38	21. 45. 20	5. 21	·1034	20. 40	·01523			
5. 21	42. 40	5. 34	·1023	23. 59	·01543			
6. 47	43. 0	5. 54	·1027					
7. 15	44. 10	6. 25	·1017					
7. 32	43. 0	6. 55	·1022					
7. 43	43. 30	7. 6	·1021					
7. 55	41. 50	7. 15	·1026					
8. 7	42. 50	7. 24	·1026					
8. 18	41. 15	7. 32	·1029					
	***	7. 37	·1024					
8. 44	40. 30	7. 54	·1028					
	***	8. 6	·1024					
9. 17	42. 40	8. 11	·1026					
9. 45	40. 25	8. 21	·1021					
	***	8. 30	·1021					
10. 10	42. 0	8. 41	·1016					
	***	9. 18	·1020					
10. 33	41. 0	9. 45	·1032					
	***	10. 0	·1040					
10. 48	37. 0	10. 6	·1035					
11. 8	36. 30	10. 17	·1033					
	***	10. 24	·1039					
11. 17	34. 0	10. 32	·1039					
	***	10. 45	·1039					
11. 38	36. 20	11. 0	·1065					
	***	12. 17	·1039					
12. 12	33. 50	13. 0	·1035					
	***	13. 34	·1043					
12. 45	38. 10	13. 46	·1037					
	***	14. 20	·1046					
13. 3	37. 15	14. 38	·1041					
	***	14. 55	·1045					
13. 12	38. 45	15. 7	·1042					
	***	15. 24	·1044					
13. 55	40. 5	15. 42	·1038					
	***	16. 7	·1054					
14. 18	36. 0	16. 40	·1038					
	***	16. 59	·1040					
14. 50	37. 30	17. 6	·1038					
14. 55	40. 0	17. 23	·1044					
15. 3	40. 30	17. 57	·1039					
15. 20	48. 10	18. 18	·1040					
15. 40	48. 30	18. 48	·1040					
16. 26	37. 5	18. 52	·1044					
16. 54	41. 30	19. 6	·1040					
	***	19. 13	·1043					
19. 39	36. 50	19. 22	·1035					
19. 46	39. 30	19. 44	·1037					
19. 54	38. 35	20. 20	·1022					
	***	20. 30	·1021					
20. 41	42. 10	20. 47	·1013					
21. 2	45. 0	21. 8	·1020					
21. 54	44. 5	21. 57	·1018					
22. 10	47. 0	22. 22	·1023					
23. 0	46. 45	22. 43	·1021					
23. 59	48. 30	23. 7	·1026					
		23: 27	·1025					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 30		(†)		(†)	0. 40	64 ·0	65 ·0
1. 25	49. 30	1. 13	·1027	1. 3	·01447	1. 40	65 ·0	66 ·0
1. 40	48. 40	1. 30	·1028	2. 8	·01316	2. 40	66 ·0	67 ·0
2. 8	52. 30	2. 0	·1040	3. 0	·01141	3. 40	67 ·0	68 ·0
2. 26	51. 45	2. 24	·1018	3. 16	·01082	4. 40	67 ·3	68 ·5
2. 31	52. 20	2. 30	·1019	5. 4	·00705	5. 40	67 ·6	68 ·5
2. 47	49. 20	2. 44	·1006	5. 25	·00688	6. 40	67 ·7	68 ·5
2. 50	49. 30	2. 48	·1011		·00721	7. 40	67 ·5	68 ·0
2. 55	48. 40	2. 52	·1010	6. 0	·00738	8. 40	67 ·2	67 ·8
3. 5	50. 30	3. 0	·1018	6. 24	·00691	9. 40	67 ·0	68 ·0
3. 13	48. 40	3. 10	·1013	6. 33	·00706	10. 40	67 ·0	68 ·0
3. 17	50. 0	3. 15	·1019	7. 10	·00446	11. 40	66 ·5	68 ·0
3. 24	49. 0	3. 19	·1018	7. 19	·00662	21. 40	59 ·5	60 ·5
3. 32	51. 10	3. 35	·1037	8. 19	·00620			
3. 44	50. 15	3. 47	·1014	8. 50	·00636			
3. 47	48. 10	4. 9	·1022	9. 48	·00627			
4. 14	48. 0	4. 26	·1012	11. 13	·00698			
4. 28	46. 15	4. 35	·1021	13. 30	·00892			
4. 43	47. 5	4. 45	·1010	13. 46	·00938			
4. 59	44. 30	5. 0	·1005	14. 26	·00965			
5. 8	41. 10	5. 10	·1014	17. 15	·01508			
5. 15	42. 0	5. 35	·1009	17. 22	·01482			
5. 20	40. 0	5. 39	·1003	21. 38	·01283			
5. 40	44. 20	5. 46	·1003		·01343			
5. 48	42. 30	5. 56	·1028	22. 30	·01421			
6. 4	44. 30	6. 21	·1010	23. 32	·01456			
6. 20	41. 10	6. 32	·1028					
6. 36	46. 40	6. 45	·1016					
6. 55	43. 50	7. 0	·1013					
7. 7	44. 0	7. 9	·1001					
7. 17	34. 30	7. 16	·1021					
	***	7. 30	·1038					
8. 3	38. 30	7. 45	·1042					
8. 16	31. 15	8. 5	·1040					
8. 22	30. 10	8. 15	·1019					
8. 35	33. 10	8. 21	·1032					
8. 52	29. 30	8. 30	·1036					
9. 1	32. 30	8. 42	·1026					
9. 9	31. 30	9. 3	·1046					
	***	9. 9	·1038					
10. 10	38. 40	9. 20	·1043					
	***	9. 48	·1016					
10. 18	41. 30	11. 0	·1022					
	***	12. 58	·1029					
11. 10	42. 30	13. 14	·1037					
	***	13. 22	·1031					
12. 41	40. 5	13. 32	·1021					
	***	13. 45	·1028					
13. 8	42. 15	14. 3	·1044					
	***	14. 36	·1046					
13. 24	38. 40	15. 5	·1033					
	***	15. 43	·1035					
13. 45	52. 30	16. 0	·1037					
	***		***					
15. 15	36. 30	16. 35	·1035					
	***		***					
15. 25	38. 30	18. 0	·1037					
	***	20. 10	·1034					
		20. 30	·1036					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 1		Sept. 1						
h m	° ′ ″	h m		h m		h m	°	°
16. 11	21. 36. 40	20. 47	·1032					
	***	21. 37	·1026					
17. 1	38. 45	22. 5	·1017					
	***	22. 18	·1022					
20. 15	41. 30	22. 35	·1018					
	***	23. 45	·1024					
20. 32	42. 20	23. 59	·1028					
	***							
20. 47	43. 30							
	***							
22. 8	45. 0							
22. 41	47. 40							
22. 54	47. 20							
23. 59	49. 5							
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 0	21. 49. 0	0. 0	·1028	0. 0	·01456	1. 40	63 ·0	63 ·5
0. 7	48. 40	0. 17	·1029	0. 51	·01443	3. 40	65 ·0	66 ·0
0. 45	51. 15	0. 24	·1028	2. 0	·01359	9. 40	65 ·0	66 ·0
1. 10	50. 0	0. 35	·1033	2. 38	·01256	21. 40	56 ·0	57 ·0
1. 17	51. 50	1. 9	·1025	3. 20	·01178			
1. 36	49. 30	1. 14	·1034	5. 46	·00522			
1. 41	50. 30	1. 30	·1028		·00593			
2. 29	50. 0	2. 21	·1037	8. 6	·00546			
2. 42	46. 20	2. 36	·1021	8. 29	·00577			
2. 59	44. 40	2. 56	·1028	9. 20	·00538			
3. 6	42. 5		***	10. 13	·00558			
3. 18	40. 20	3. 10	·1021	11. 7	·00617			
4. 16	42. 50		***	11. 38	·00683			
6. 47	43. 15	3. 28	·1028	13. 50	·00977			
7. 24	42. 0		***	16. 6	·01400			
	***	3. 37	·1020		·01441			
7. 54	32. 20		***	17. 52	·01392			
	***	3. 59	·1027	21. 6	·01413			
8. 50	41. 50		***		·01326			
	***	4. 40	·1020	22. 13	·01417			
10. 28	41. 10		***	23. 37	·01376			
	***	5. 0	·1024					
11. 10	44. 10		***					
	***	5. 34	·1024					
12. 18	42. 0	6. 15	·1030					
	***	6. 51	·1028					
12. 51	47. 30	7. 0	·1032					
	***	7. 32	·1026					
13. 36	41. 30	7. 50	·1034					
	***	8. 4	·1044					
14. 30	39. 50	9. 7	·1032					
	***	11. 44	·1035					
14. 58	41. 30	12. 43	·1042					
	***	13. 15	·1052					
19. 25	42. 0	15. 10	·1046					
	***	15. 40	·1047					
19. 40	39. 35	15. 48	·1050					
19. 48	40. 30	15. 55	·1048					
20. 15	39. 0	17. 30	·1050					
21. 57	46. 30	18. 0	·1046					
	***	18. 26	·1043					
23. 1	48. 0	18. 33	·1046					
	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Sept. 2						
h m	° ′ ″	h m		h m		h m	°	°
		18. 36	·1042					
		19. 0	·1048					
		19. 18	·1046					
		19. 39	·1050					
		19. 45	·1040					
		19. 50	·1046					
		22. 20	·1015					
		23. 2	·1026					
Sept. 3		Sept. 3		Sept. 3		Sept. 3		
	(†)		(†)					
1. 6	21. 47. 30	1. 5	·1023	0. 0	·01341	1. 40	60 ·7	62 ·0
2. 59	50. 0		***	0. 48	·01262	3. 40	63 ·5	64 ·5
3. 7	48. 30	1. 45	·1030	1. 59	·01018	9. 40	68 ·0	69 ·5
3. 20	48. 45	3. 15	·1036	3. 48	·00522	21. 40	58 ·0	59 ·0
3. 28	46. 20	3. 22	·1032		·00558			
3. 43	44. 50	3. 26	·1026	5. 32	·00601			
	***	3. 36	·1023	6. 35	·00558			
5. 33	42. 50	3. 50	·1028	7. 30	·00569			
5. 56	41. 30	4. 7	·1030	9. 37	·00517			
6. 32	36. 10	4. 29	·1034	10. 28	·00537			
	***	4. 34	·1031	12. 30	·00696			
7. 26	36. 5	4. 54	·1036	13. 35	·00779			
	***	5. 11	·1026	15. 49	·01094			
8. 2	49. 30	5. 28	·1034	18. 31	·01482			
	***	5. 53	·1022		·01477			
10. 38	43. 40	6. 13	·1033	20. 7	·01460			
	***	8. 15	·1033	20. 44	·01446			
12. 7	42. 30	8. 35	·1034	22. 2	·01485			
	***	10. 0	·1033		·01340			
12. 30	47. 50	10. 40	·1035	22. 50	·01341			
12. 48	45. 5	11. 9	·1036	23. 59	·01276			
	***	11. 35	·1040					
13. 17	44. 40	12. 30	·1038					
	***	12. 57	·1045					
13. 35	42. 50	13. 42	·1038					
	***	15. 4	·1036					
14. 0	44. 0	16. 45	·1046					
	***	16. 58	·1048					
14. 48	42. 40	17. 6	·1046					
	***	17. 57	·1045					
15. 22	44. 30	18. 30	·1046					
15. 46	42. 10	20. 11	·1038					
	***	20. 55	·1019					
17. 30	42. 15		***					
17. 46	41. 0	21. 19	·1024					
	***		***					
19. 40	40. 20	22. 37	·1017					
21. 15	45. 15		***					
21. 47	44. 40	23. 0	·1022					
22. 9	45. 30		***					
22. 14	47. 10	23. 43	·1019					
22. 24	48. 0							
22. 32	47. 30							
	***							
23. 20	52. 5							
23. 40	51. 35							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
h m	° ′ ″	h m		h m		h m	°	°
	(†)		(†)		(†)	1. 40	63 ·5	64 ·5
1. 14	21. 51. 45	1. 10	·1018	1. 3	·01158	3. 40	67 ·0	68 ·0
	***	1. 45	·1007	2. 9	·00917	9. 40	64 ·0	65 ·0
2. 20	50. 0	2. 15	·1019	3. 11	·00638	21. 40	58 ·5	59 ·0
2. 34	48. 5	2. 22	·1016	3. 28	·00677			
	***	2. 35	·1018	4. 30	·00692			
3. 2	48. 30	3. 2	·1012	6. 50	·00663			
	***	3. 30	·1016	8. 7	·00644			
6. 4	42. 30	4. 13	·1014	9. 29	·00680			
6. 48	42. 30	4. 37	·1008	10. 30	·00738			
7. 23	39. 30	5. 8	·1013	12. 16	·00886			
7. 46	42. 20	5. 35	·1008	16. 22	·01516			
8. 30	44. 30	6. 5	·1012		·01494			
8. 36	42. 50	6. 24	·1010	20. 15	·01477			
	***	6. 52	·1012	22. 13	·01465			
8. 56	43. 10	7. 25	·1020	23. 0	·01468			
	***	7. 36	·1018	23. 30	·01470			
9. 10	42. 0	7. 50	·1019	23. 59	·01432			
	***	9. 0	·1014					
11. 56	44. 30	9. 32	·1020					
	***	9. 44	·1018					
13. 24	43. 50	9. 59	·1021					
	***	10. 32	·1015					
13. 42	45. 10	10. 45	·1017					
	***	10. 54	·1017					
14. 3	43. 15	11. 48	·1025					
	***	12. 0	·1023					
14. 56	45. 30	12. 14	·1024					
	***	12. 17	·1023					
15. 12	43. 10	12. 37	·1023					
	***	13. 11	·1021					
16. 3	42. 5	13. 20	·1025					
	***	13. 31	·1027					
16. 47	46. 30	14. 15	·1028					
	***	15. 0	·1035					
17. 18	46. 0	16. 8	·1034					
	***	16. 30	·1026					
18. 52	40. 20	16. 44	·1028					
19. 32	38. 30	16. 50	·1024					
19. 45	39. 30	17. 45	·1036					
	***	19. 56	·1036					
21. 30	39. 30	20. 4	·1031					
	***	20. 11	·1031					
22. 18	43. 30	20. 16	·1029					
	***	20. 22	·1032					
22. 44	43. 10	21. 50	·1022					
	***	22. 17	·1026					
23. 59	46. 10	22. 49	·1021					
		23. 7	·1020					
		23. 22	·1017					
		23. 52	·1019					
		23. 59	·1021					
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
0. 0	21. 46. 20	0. 0	·1021	0. 30	·01322	1. 40	63 ·0	63 ·5
0. 10	46. 55	0. 15	·1016	1. 52	·01117	3. 40	65 ·0	66 ·0
0. 15	46. 15	0. 22	·1020	3. 16	·00838	9. 40	63 ·0	63 ·8
0. 30	48. 0	0. 32	·1019	4. 41	·00514	21. 40	60 ·0	61 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 5		Sept. 5		Sept. 5				
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 47. 25	0. 51	·1024	5. 0	·00576			
3. 15	46. 0	0. 59	·1027	6. 42	·00534			
3. 28	44. 40	1. 17	·1029		·00604			
3. 35	46. 0	1. 27	·1027	7. 59	·00528			
3. 44	44. 55	2. 20	·1026	9. 3	·00536			
4. 18	43. 40	2. 43	·1030	10. 0	·00598			
	***	3. 11	·1025	18. 26	·01426			
8. 44	42. 20	3. 21	·1021	19. 25	·01481			
	***	3. 33	·1026	20. 43	·01472			
9. 21	38. 15	4. 0	·1028	22. 33	·01473			
	***	4. 24	·1027	23. 59	·01391			
10. 25	42. 10	4. 50	·1022					
	***	5. 6	·1026					
11. 26	42. 35	5. 35	·1022					
	***	5. 53	·1025					
11. 39	41. 55	6. 11	·1025					
	***	6. 45	·1026					
12. 15	43. 40	7. 20	·1024					
	***	8. 35	·1026					
12. 52	41. 50	9. 17	·1032					
	***	10. 2	·1032					
13. 22	43. 15	10. 28	·1035					
	***	10. 45	·1037					
16. 37	41. 50	10. 55	·1034					
	***	11. 5	·1034					
17. 26	42. 15	11. 29	·1032					
17. 45	40. 0	11. 39	·1036					
	***	11. 52	·1036					
19. 8	38. 35	12. 7	·1032					
	***	12. 15	·1036					
21. 15	38. 0	12. 35	·1031					
23. 6	44. 55	13. 6	·1030					
23. 14	46. 5	13. 15	·1032					
23. 59	46. 55	15. 50	·1036					
		16. 2	·1037					
		16. 44	·1036					
		17. 6	·1037					
		17. 57	·1034					
		18. 30	·1036					
			***					
		20. 31	·1031					
			***					
		22. 30	·1018					
			***					
		23. 32	·1012					
		23. 59	·1013					
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
0. 0	21. 46. 55	0. 0	·1013	0. 0	·01366	1. 40	63 ·8	65 ·0
0. 16	46. 55	0. 28	·1018	0. 57	·01261	3. 40	66 ·0	67 ·0
0. 30	48. 5	0. 46	·1014	1. 58	·01098	9. 40	67 ·0	68 ·5
1. 1	46. 50	1. 2	·1016	2. 29	·00761	23. 15	60 ·0	61 ·0
1. 15	47. 20	1. 8	·1019	3. 38	·00596			
2. 14	46. 30	1. 33	·1018	3. 52	·00682			
3. 2	43. 55		***		·00720			
3. 22	43. 40	1. 53	·1022	4. 35	·00684			
3. 41	44. 10		***	8. 22	·00656			
3. 52	43. 10	2. 52	·1018		·00762			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
Sept. 6		Sept. 6		Sept. 6				
h m	° ′ ″	h m		h m		h m	°	°
4. 14	21. 43. 0	3. 37	·1026	10. 28	·00691			
4. 36	43. 15	4. 12	·1020	13. 50	·00817			
4. 45	44. 0	4. 30	·1020	15. 52	·01024			
7. 17	43. 10	4. 42	·1026	17. 45	·01283			
	***	5. 19	·1026	19. 26	·01542			
8. 5	42. 10	5. 41	·1022	19. 31	·01521			
	***	5. 54	·1020	20. 55	·01525			
8. 36	42. 50	6. 25	·1026	21. 46	·01500			
	***	7. 15	·1029	23. 48	·01512			
9. 13	39. 50	7. 35	·1029					
	***	8. 0	·1025					
10. 18	43. 30	8. 17	·1027					
	***	9. 0	·1024					
12. 2	42. 30	9. 13	·1025					
	***	9. 51	·1028					
12. 18	44. 5	10. 37	·1025					
	***	11. 58	·1030					
12. 40	42. 20	12. 22	·1035					
	***	13. 5	·1033					
13. 19	43. 25	13. 27	·1037					
	***	14. 6	·1031					
13. 56	41. 30	14. 37	·1034					
	***	15. 26	·1032					
14. 25	43. 30	16. 44	·1034					
	***	18. 35	·1035					
15. 0	41. 0	19. 46	·1034					
	***	20. 20	·1028					
18. 38	42. 15	21. 35	·1020					
	***	22. 7	·1010					
19. 48	39. 30	22. 21	·1010					
	***	22. 39	·1006					
20. 11	40. 25	22. 49	·1008					
	***	23. 0	·1003					
20. 24	39. 5							
20. 57	42. 15							
21. 9	42. 10							
21. 55	44. 10							
22. 8	46. 0							
	***							
23. 10	50. 50							
	***							
23. 30	50. 0							
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
0. 4	21. 50. 0	0. 5	·1009	0. 38	·01517	7. 15	68 ·5	69 ·0
0. 31	49. 50	1. 11	·1016	1. 20	·01483	12. 40	66 ·5	66 ·5
0. 48	50. 10	1. 29	·1011	2. 25	·01387	13. 40	65 ·8	66 ·0
2. 6	48. 5		***	3. 0	·01278	14. 40	65 ·0	65 ·4
2. 53	44. 5	2. 15	·1018	5. 15	·00625	15. 40	64 ·5	65 ·0
4. 32	40. 50		***		·00783	16. 40	64 ·5	65 ·2
6. 2	39. 30	2. 47	·1021	10. 11	·00664	17. 40	63 ·0	63 ·8
7. 37	41. 30	4. 24	·1019		·00753	18. 40	63 ·0	63 ·0
	***	4. 30	·1026	11. 10	·00782	19. 40	62 ·9	63 ·0
13. 14	42. 30	4. 35	·1019	14. 48	·01101	20. 40	62 ·5	62 ·5
	***	4. 37	·1021	18. 44	·01536	21. 40	61 ·8	62 ·8
14. 1	42. 35	6. 39	·1017		·01557	22. 40	62 ·5	63 ·5
	***	6. 55	·1019	21. 52	·01501	23. 40	63 ·0	63 ·6
17. 0	42. 0	8. 18	·1022	22. 48	·01493			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
Sept. 7		Sept. 7		Sept. 7				
h m	° ′ ″	h m		h m		h m	°	°
19. 0	21. 39. 55	8. 30	·1026	23. 51	·01508			
	***	10. 28	·1027					
21. 0	40. 5	11. 12	·1028					
23. 11	46. 5	11. 15	·1027					
		11. 56	·1030					
		12. 10	·1028					
		12. 54	·1032					
		13. 34	·1035					
		14. 6	·1033					
		15. 0	·1033					
		15. 6	·1040					
		15. 30	·1038					
		17. 6	·1042					
		17. 20	·1042					
		17. 24	·1039					
		17. 30	·1040					
		18. 42	·1035					
		19. 7	·1036					
		20. 9	·1029					
		20. 44	·1026					
		21. 30	·1024					
		23. 22	·1026					
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
	(†)		(†)		(†)	0. 40	63 ·0	63 ·8
1. 17	21. 45. 40	1. 17	·1028	1. 15	·01438	1. 40	63 ·8	64 ·7
2. 45	45. 20	1. 34	·1031	3. 52	·01156	2. 40	64 ·0	65 ·0
2. 52	44. 0	1. 43	·1029	5. 50	·00821	3. 40	65 ·0	66 ·0
3. 27	43. 40	2. 17	·1036	7. 0	·00690	4. 40	65 ·9	67 ·0
3. 47	42. 10	2. 30	·1030	9. 48	·00576	5. 40	66 ·0	66 ·8
4. 54	42. 5	2. 52	·1032	10. 13	·00561	6. 40	66 ·0	66 ·7
5. 31	41. 5	3. 2	·1024	11. 3	·00581	7. 40	66 ·5	67 ·3
6. 31	42. 55	3. 5	·1028	11. 29	·00550	8. 40	66 ·5	67 ·5
8. 16	44. 5	3. 8	·1024	12. 14	·00541	9. 40	66 ·5	67 ·3
8. 28	42. 40	3. 48	·1027	13. 15	·00620	10. 40	66 ·5	67 ·0
9. 10	42. 40	4. 0	·1023	14. 29	·00718	11. 40	66 ·0	67 ·0
9. 17	44. 20	5. 0	·1028	14. 52	·00723	21. 40	59 ·0	60 ·0
9. 48	38. 55	5. 44	·1027	15. 24	·00816			
10. 12	34. 30	6. 0	·1032	16. 5	·00897			
11. 4	40. 35	6. 10	·1030	17. 10	·01002			
11. 26	40. 30	6. 19	·1034	19. 20	·01445			
11. 43	37. 30	6. 36	·1030		·01408			
	***	6. 46	·1026	22. 22	·01446			
12. 2	41. 0	7. 38	·1034	23. 16	·01478			
	***	8. 21	·1037	23. 59	·01456			
12. 31	35. 55	8. 29	·1044					
	***	9. 25	·1028					
12. 55	34. 30	9. 52	·1040					
	***	10. 7	·1026					
13. 41	35. 30	10. 26	·1026					
	***	10. 56	·1035					
14. 10	44. 30	11. 10	·1042					
	***	11. 36	·1036					
14. 33	36. 30	11. 54	·1065					
	***	12. 4	·1066					
14. 49	39. 30	12. 14	·1046					
	***	13. 0	·1032					
15. 25	39. 30	13. 49	·1043					
	***	14. 0	·1034					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 8		Sept. 8						
h m	° ′ ″	h m		h m		h m	°	°
15. 38	21. 44. 0	14. 15	·1040					
	***	14. 30	·1056					
15. 52	45. 0	14. 54	·1035					
	***	15. 7	·1034					
16. 17	58. 0	15. 37	·1048					
	***	16. 7	·1047					
17. 12	37. 30	16. 15	·1040					
	***	16. 29	·1044					
18. 53	38. 30	17. 0	·1069					
	***	18. 6	·1050					
20. 48	44. 15	18. 54	·1054					
21. 28	47. 30	20. 36	·1037					
21. 58	48. 5	20. 58	·1030					
22. 15	47. 10	21. 30	·1030					
23. 18	51. 30	22. 5	·1022					
23. 59	51. 35	22. 10	·1018					
		23. 10	·1023					
		23. 37	·1019					
		23. 59	·1019					
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	21. 51. 35	0. 0	·1019		(†)	1. 40	63 ·5	64 ·0
0. 42	51. 30	0. 17	·1016	1. 30	·01317	3. 40	66 ·5	67 ·5
2. 44	53. 30	0. 36	·1014	2. 44	·01056	9. 40	67 ·0	68 ·0
2. 55	51. 20	0. 52	·1017	3. 16	·00903	21. 40	63 ·5	64 ·5
3. 12	53. 20		(†)	3. 59	·00710			
3. 17	51. 40	2. 14	·1020	4. 16	·00620			
3. 33	52. 0	2. 27	·1021		·00678			
3. 41	49. 55	2. 45	·1013	5. 58	·00686			
4. 8	45. 5	3. 24	·1016	8. 48	·00657			
5. 0	43. 15	3. 32	·1003	9. 22	·00630			
5. 18	42. 5	4. 2	·1017	10. 13	·00621			
5. 30	43. 10	4. 15	·1017	11. 23	·00630			
	***	4. 24	·1021	15. 47	·00944			
7. 24	43. 55	4. 51	·1021	18. 33	·01395			
	***	5. 0	·1018	21. 27	·01458			
7. 48	40. 30	5. 45	·1031	23. 10	·01481			
	***	5. 58	·1031	23. 59	·01464			
8. 32	43. 5	6. 9	·1037					
	***	6. 20	·1028					
9. 7	42. 20	6. 57	·1025					
9. 18	45. 20	7. 11	·1018					
9. 26	41. 40	7. 24	·1025					
9. 40	43. 40	8. 10	·1023					
	***	8. 45	·1037					
10. 20	43. 30	8. 58	·1030					
	***	9. 15	·1030					
10. 47:	47. 40	9. 25	·1037					
	***	10. 9	·1038					
11. 15	43. 20	10. 22	·1047					
	***	11. 35	·1043					
11. 44	42. 20	11. 50	·1046					
	***	12. 50	·1042					
12. 18	44. 30	13. 5	·1047					
	***	14. 49	·1051					
12. 56	43. 15	15. 52	·1055					
	***	17. 30	·1048					
13. 15	45. 0	18. 0	·1045					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 9		Sept. 9						
h m	° ′ ″	h m		h m		h m	°	°
13. 48	21. 43. 50	19. 0	·1048					
	***	19. 11	·1047					
14. 7	44. 30	19. 24	·1049					
	***	20. 8	·1038					
14. 17	43. 15	20. 34	·1034					
	***	20. 46	·1026					
14. 47	44. 5	20. 54	·1025					
	***	21. 0	·1022					
16. 53	43. 10	22. 10	·1030					
17. 0	41. 30	22. 30	·1028					
	***	22. 56	·1031					
19. 45	42. 10		(†)					
	***							
20. 3	43. 55							
20. 55	43. 25							
22. 45	47. 55							
	(†)							
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
0. 51	21. 48. 0	1. 0	·1034	0. 55	·01377	1. 40	66 ·0	67 ·0
1. 17	48. 50	1. 58	·1026	2. 7	·01226	3. 40	68 ·0	69 ·5
3. 21	47. 40	3. 0	·1024	2. 47	·01120	9. 40	69 ·0	69 ·5
3. 45	48. 30	3. 19	·1028	3. 50	·00864	21. 40	63 ·5	64 ·5
5. 53	44. 10	3. 42	·1024	4. 37	·00691			
6. 12	44. 30	4. 28	·1034		·00754			
6. 22	45. 35	5. 20	·1037	10. 14	·00700			
6. 33	44. 55	6. 45	·1034	10. 29	·00738			
7. 57	44. 30	8. 27	·1034	11. 0	·00741			
8. 7	43. 20	9. 36	·1030	16. 15	·01181			
8. 59	43. 35	9. 45	·1027	19. 44	·01540			
9. 16	42. 20	10. 36	·1025	21. 0	·01614			
9. 29	44. 50	10. 52	·1056	21. 26	·01601			
10. 27	44. 5	11. 6	·1049	21. 33	·00844			
10. 49	35. 30	11. 20	·1036		·01005			
	***	11. 30	·1036	23. 14	·01037			
11. 15	40. 40	11. 42	·1029					
11. 26	39. 30	11. 58	·1030					
11. 43	43. 10	12. 6	·1027					
12. 18	42. 0	13. 45	·1033					
12. 54	44. 55	14. 7	·1032					
13. 24	42. 40	15. 20	·1034					
	***	15. 45	·1026					
14. 38	43. 0	15. 58	·1027					
14. 52	41. 45	16. 2	·1026					
15. 15	42. 0	16. 30	·1021					
	***	17. 2	·1011					
16. 5	46. 30	17. 14	·1016					
17. 0	41. 50	17. 24	·1015					
20. 47	42. 0	17. 55	·1019					
21. 35	42. 50	18. 18	·1016					
22. 30:	43. 0	19. 10	·1017					
23. 40	46. 20	20. 8	·1025					
		20. 17	·1031					
		21. 7	·1027					
		21. 30	·1031					
		23. 35	·1016					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 47. 47*	1. 40	·1025	0. 0	·00971	1. 40	66 ·5	67 ·5
3. 40	45 40*	3. 40	·1020*	1. 15	·00864	3. 40	67 ·0	68 ·0
9. 40	43. 22*	9. 40	·1027*	2. 14	·00715	9. 40	67 ·2	68 ·8
21. 40	42. 33*	21. 40	·1024	3. 1	·00578	21. 40	61 ·5	62 ·5
				3. 22	·00518			
				4. 43	·00537			
				6. 50	·00519			
				8. 51	·00467			
				10. 5	·00520			
				10. 52	·00598			
				11. 15	·00618			
				13. 50	·00917			
				16. 46	·01405 / ·01397			
				21. 3	·01362			
				23. 59	·01373			
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
1. 40	21. 48. 20*	1. 40	·1029*	0. 14	·01359	1. 40	64 ·5	65 ·0
3. 40	47. 3*	3. 40	·1032*	1. 13	·01261	3. 40	66 ·0	67 ·5
9. 40	43. 11*	9. 40	·1046*	2. 0	·01201	9. 40	66 ·0	67 ·0
21. 40	42. 1*	21. 40	·1043*	3. 12	·01016	21. 40	60 ·2	61 ·0
				4. 1	·00852			
				4. 43	·00661			
				5. 58	·00437			
				6. 14	·00402 / ·00456			
				10. 7	·00412			
				11. 50	·00476			
				14. 11	·00681			
				16. 43	·00980 (†)			
				21. 45	·01264			
				23. 59	·01318			
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
1. 40	21. 48. 10*	1. 40	·1042*	0. 15	·01317	1. 40	61 ·2	62 ·0
3. 40	44. 49*	3. 40	·1044*	0. 50	·01304	3. 40	62 ·8	63 ·4
9. 40	34. 39*	9. 40	·1054*	1. 22	·01360 / ·01233	9. 40	62 ·0	63 ·0
22. 50	44. 34*	22. 50	·1034*	2. 7	·01171	22. 50	56 ·5	58 ·0
				3. 44	·01096			
				6. 10	·00683			
				7. 0	·00602			
				8. 30	·00561			
				9. 25	·00557			
				11. 2	·00612			
				17. 18	·01123 / ·01212			
				18. 30	·01248			
				21. 37	·01267 (†)			
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
6. 50	21. 42. 4*	6. 50	·1046*	0. 0	·01124	6. 50	63 ·0	64 ·0
21. 40	39. 52*	21. 40	·1060*	0. 58	·01096	12. 40	58 ·8	61 ·0
				1. 55	·01063	13. 40	58 ·0	61 ·0
				2. 42	·00819	14. 40	57 ·0	59 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
				Sept. 14		Sept. 14		
h m	° ′ ″	h m		h m		h m	°	°
				3. 25	·00632	15. 40	56 ·3	58 ·5
				4. 46	·00262 / ·00303	16. 40	55 ·8	57 ·2
						17. 40	55 ·6	57 ·5
				6. 5	·00316	18. 40	55 ·7	57 ·3
				10. 10	·00291	19. 40	55 ·8	57 ·3
				13. 47	·00749	20. 40	56 ·5	57 ·8
				16. 31	·01283 / ·01222	21. 40	56 ·9	58 ·0
						22. 40	58 ·0	59 ·1
				21. 0	·01281	23. 40	59 ·5	60 ·4
				22. 5	·01261			
				23. 59	·00998			
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
1. 40	21. 48. 16*	1. 40	·1048*	1. 15	·00781	0. 40	60 ·7	61 ·1
3. 40	47. 14*	3. 40	·1058*	2. 6	·00617	1. 40	61 ·5	62 ·4
9. 40	42. 41*	9. 40	·1054*	2. 15	·00581	2. 40	63 ·0	63 ·5
21. 40	41. 3*	21. 40	·1043*	2. 50	·00465	3. 40	64 ·2	65 ·1
				3. 22	·00343 / ·00390	4. 40	65 ·5	66 ·4
						5. 40	65 ·9	66 ·5
				3. 37	·00394 / ·00421	6. 40	66 ·2	66 ·6
						7. 40	66 ·4	67 ·2
				3. 48	·00416	8. 40	66 ·5	66 ·8
				6. 58	·00428	9. 40	66 ·7	67 ·0
				9. 7	·00402 / ·00582	10. 40	65 ·5	66 ·0
						11. 40	64 ·6	65 ·0
				10. 54	·00543	21. 40	61 ·0	61 ·6
				19. 26	·01194			
				21. 5	·01278			
				22. 40	·01336			
				23. 59	·01303			
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
1. 40	21. 47. 38*	1. 40	·1045*	1. 17	·01289	1. 40	62 ·2	62 ·8
3. 40	48. 11*	3. 40	·1025*	2. 45	·01231	3. 40	64 ·0	65 ·0
9. 40	37. 48*	9. 40	·0944*	4. 39	·00924 / ·01043	9. 40	64 ·0	65 ·0
21. 40	42. 31*	21. 40	·1028*			21. 40	58 ·0	59 ·3
				5. 40	·00881			
				6. 7	·00838			
				7. 30	·00682			
				8. 50	·00616			
				9. 15	·00618			
				9. 32	·00596			
				10. 16	·00616			
				11. 33	·00672			
				14. 0	·00898			
				14. 58	·00951			
				15. 52	·01062			
				17. 9	·01321 / ·01228			
				18. 20	·01277			
				22. 13	·01294			
				23. 32	·01315			
				23. 59	·01297			
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
1. 40	21. 51. 43*	1. 40	·1033*	0. 41	·01281	1. 40	60 ·7	61 ·8
3. 40	47. 1*	3. 40	·1041*	1. 26	·01280	3. 40	63 ·0	64 ·5
9. 40	39. 17*	9. 40	·1049*	2. 14	·01157	9. 40	65 ·0	66 ·0

September 11. The time-piece, giving motion to the cylinder for register of the Declination and Horizontal Force, was with Mr. Dent from this date to October 13, for the purpose of altering it so that the cylinder should make one revolution in 24 hours instead of two revolutions as heretofore.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.17		Sept.17		Sept.17		Sept.17		
h m	° ′ ″	h m		h m		h m	°	°
21. 40	21. 43. 17*	21. 40	·1044*	3. 22	·00924	21. 40	61 ·0	61 ·5
				5. 41	{·00381 ·00497			
				6. 26	·00430			
				6. 49	·00458			
				11. 37	·00382			
				14. 15	·00469			
				17. 20	·00617			
				18. 41	·00716			
				21. 44	·01098			
				22. 50	·01262			
				23. 26	·01343			
				23. 50	·01376			
				23. 59	·01344			
Sept.18		Sept.18		Sept.18		Sept.18		
1. 40	21. 48. 7*	1. 40	·1043*	1. 0	·01374	1. 40	61 ·0	62 ·0
3. 40	45. 45*	3. 40	·1042*	2. 5	·01384	3. 40	62 ·0	63 ·3
9. 40	43. 32*	9. 40	·1049*	3. 25	·01366	9. 40	62 ·6	63 ·5
21. 40	39. 41*	21. 40	·1052*	5. 22	·00999	21. 40	55 ·0	55 ·5
				6. 50	·00830			
				8. 15	·00757			
				9. 56	·00737			
				11. 36	·00779			
				12. 30	·00838			
				14. 41	·01077			
				16. 43	{·01358 ·01255			
				18. 34	·01285			
				21. 5	·01270			
				22. 1	·01237			
				23. 59	·01287			
Sept.19		Sept.19		Sept.19		Sept.19		
1. 40	21. 46. 27*	1. 40	·1058*	1. 12	·01251	1. 40	57 ·0	57 ·0
3. 40	47. 0*	3. 40	·1056*	1. 54	·01217	3. 40	58 ·0	59 ·0
9. 40	41. 3*	9. 40	·1064*	2. 41	·01136	9. 40	60 ·0	60 ·5
21. 40	39. 36*	21. 40	·1059*	3. 37	·00976	21. 40	53 ·0	54 ·0
				6. 20	·00417			
				7. 55	·00206			
				8. 0	·00216			
				9. 43	·00205			
				11. 0	·00218			
				12. 10	·00259			
				14. 35	·00477			
				17. 43	·00896			
				20. 4	·01235			
				20. 15	·01227			
				21. 0	·01190			
				23. 25	·01282			
				23. 59	·01290			
Sept.20		Sept.20		Sept.20		Sept.20		
1. 40	21. 47. 4*	1. 40	·1054*	0. 24	·01301	1. 40	55 ·8	56 ·7
3. 40	46. 10*	3. 40	·1061*	1. 22	·01258	3. 40	57 ·5	58 ·0
9. 40	38. 35*	9. 40	·1078*	2. 45	·01120	9. 40	58 ·5	60 ·0
22. 40	43. 18*	22. 40	·1051*	4. 36	{·00998 ·00877	22. 40	53 ·6	54 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
				Sept.20				
h m	° ′ ″	h m		h m		h m	°	°
				6. 8	·00618			
				7. 30	·00475			
				8. 37	·00398			
				9. 48	·00342			
				10. 16	·00318			
				14. 41	·00416			
				16. 10	·00525			
				18. 21	·00766			
				21. 39	·01179			
				22. 43	{·01285 ·01218			
				23. 0	·01228			
Sept.21		Sept.21		Sept.21		Sept.21		
8. 50	21. 41. 8*	8. 50	·1069*	0. 0	·01258	8. 50	59 ·5	60 ·4
21. 40	42. 20*	21. 40	·1048*	0. 50	·01271	12. 40	59 ·0	59 ·6
				1. 47	·01197	13. 40	59 ·0	59 ·7
				2. 37	·01118	14. 40	59 ·2	59 ·7
				3. 38	·00964	15. 40	59 ·5	59 ·9
				4. 40	·00698	16. 40	59 ·8	60 ·0
				6. 44	·00237	17. 40	59 ·8	60 ·1
				7. 12	·00256	18. 40	60 ·0	60 ·1
				10. 0	·00265	19. 40	60 ·2	60 ·2
				15. 22	·00256	20. 40	60 ·2	60 ·3
				16. 25	{·00241 ·00294	21. 40	61 ·0	61 ·5
						22. 40	61 ·3	62 ·0
				17. 43	·00258	23. 40	62 ·0	62 ·0
				20. 12	·00268			
				21. 33	·00250			
				22. 30	{·00304 ·00723			
				23. 59	·00741			
Sept.22		Sept.22		Sept.22		Sept.22		
1. 40	21. 47. 14*	1. 40	·1038*	1. 45	·00627	0. 40	62 ·7	63 ·0
3. 40	45. 22*	3. 40	·1049*	2. 3	{·00591 ·00763	1. 40	63 ·5	63 ·6
9. 40	42. 14*	9. 40	·1051*			2. 40	64 ·0	63 ·6
21. 40	42. 14*	21. 40	·1051*	2. 50	·00657	3. 40	64 ·5	64 ·2
				3. 30	·00601	4. 40	64 ·8	65 ·0
				4. 48	{·00560 ·01007	5. 40	65 ·0	65 ·0
						6. 40	64 ·8	65 ·0
				5. 48	·00857	7. 40	64 ·5	65 ·0
				6. 43	{·00792 ·00836	8. 40	64 ·5	64 ·8
						9. 40	63 ·0	63 ·5
				8. 7	·00735	10. 40	63 ·0	63 ·0
				8. 45	{·00716 ·00803	11. 40	63 ·0	62 ·8
						21. 40	57 ·0	58 ·0
				9. 13	{·00804 ·01034			
				9. 50	·01016			
				10. 40	·01048			
				11. 38	·01117			
				14. 42	·01358			
				16. 20	·01385			
				22. 26	·01387			
				22. 58	·01305			
				23. 28	·01384			
				23. 59	·01356			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.23		Sept.23		Sept.23		Sept.23		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 49. 47*	1. 40	·1039*	0. 42	·01315	1. 40	59 ·5	60 ·5
3. 40	46. 14*	3. 40	·1047*	2. 14	·01322	3. 40	61 ·0	62 ·0
9. 40	43. 20*	9. 40	·1055*	2. 57	·01139	9. 40	62 ·5	62 ·0
21. 40	42. 8*	21. 40	·1051*	3. 59	·00971	21. 40	57 ·0	58 ·0
				5. 20	·00782			
				6. 45	·00483			
				8. 25	·00418			
				9. 40	·00434			
				11. 5	·00466			
				16. 5	·00920			
				20. 36	·01363 / ·01321			
				22. 45	·01357			
				23. 25	·01364			
				23. 59	·01357			
Sept.24		Sept.24		Sept.24		Sept.24		
1. 40	21. 47. 8*	1. 40	·1058*	0. 32	·01317	1. 40	60 ·0	61 ·0
3. 40	45. 35*	3. 40	·1048*	2. 20	·01126	3. 40	61 ·0	62 ·0
9. 40	41. 31*	9. 40	·1055*	4. 21	·00784	9. 40	62 ·0	63 ·0
21. 40	42. 54*	21. 40	·1059*	6. 13	·00483	21. 40	56 ·5	58 ·0
				7. 18	·00372			
				7. 20	·00400			
				10. 52	·00377			
				14. 7	·00568			
				16. 57	·00857			
				18. 28	·01317			
				20. 30	·01320			
				21. 7	·01289			
				23. 52	·01337			
Sept.25		Sept.25		Sept.25		Sept.25		
1. 40	21. 48. 33*	1. 40	·1051*	0. 8	·01340	1. 40	58 ·6	59 ·5
3. 40	46. 11*	3. 40	·1051*	1. 10	·01337	3. 40	61 ·0	61 ·5
9. 40	41. 24*	9. 40	·1054*	2. 0	·01297	9. 40	63 ·0	64 ·0
21. 40	42. 49*	21. 40	·1117*	2. 48	·01198	21. 40	56 ·0	57 ·0
				4. 54	·00817			
				6. 45	·00423			
				7. 12	·00365			
				7. 14	·00403			
				8. 15	·00414			
				9. 47	·00391			
				11. 17	·00408			
				12. 29	·00428			
				14. 6	·00525			
				15. 20	·00629			
				16. 5	·00721			
				17. 48	·00908			
				21. 25	·01316			
				21. 45	·01300			
				22. 12	·01278 / ·01124			
				23. 32	·01262			
				23. 59	·01270			
Sept.26		Sept.26		Sept.26		Sept.26		
1. 40	21. 49. 34*	1. 40	·1104*	0. 24	·01162	1. 40	60 ·0	60 ·0
3. 40	50. 19*	3. 40	·1100*	2. 33	·01242	3. 40	63 ·0	63 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.26		Sept.26		Sept.26		Sept.26		
h m	° ′ ″	h m		h m		h m	°	°
9. 40	21. 31. 53*	9. 40	·1112*	4. 15	·01203	9. 40	63 ·5	63 ·0
21. 40	43. 18*	21. 40	·1086*	4. 52	·01181	21. 40	59 ·0	60 ·0
				5. 54	·01098			
				7. 15	·01076			
				8. 31	·01077			
				9. 8	·01098			
				9. 42	·01076			
				14. 13	·01221			
				16. 12	·01344			
				16. 52	·01323			
				18. 6	·01379			
				20. 43	·01357			
				23. 10	·01377			
				23. 59	·01346			
Sept.27		Sept.27		Sept.27		Sept.27		
1. 40	21. 50. 8*	1. 40	·1090*	0. 56	·01216	1. 40	59 ·5	59 ·5
3. 40	46. 35*	3. 40	·1096*	2. 5	·01080	3. 40	61 ·0	61 ·0
9. 40	36. 38*	9. 40	·1088*		***	9. 40	59 ·5	60 ·5
23. 30	45. 29*	23. 30	·1101*	3. 0	·00925	23. 30	56 ·0	57 ·0
					***			
				3. 48	·00720			
				4. 10	·00625			
				4. 26	·00583			
				4. 58	·00475			
				5. 18	·00477			
				6. 12	·00537			
				6. 50	·00537			
				7. 3	·00517			
				7. 47	·00465			
				7. 54	·00475			
				8. 5	·00458			
				10. 0	·00397			
				10. 37	·00345			
				11. 48	·00390			
				16. 0	·00641			
				19. 5	·00898			
				23. 59	·01155			
Sept.28		Sept.28		Sept.28		Sept.28		
9. 33	21. 39. 15*	9. 33	·1121*	0. 25	·01337	9. 33	56 ·0	57 ·0
21. 40	42. 43*	21. 40	·1087*	3. 30	·01280	12. 40	57 ·0	58 ·0
				7. 12	·01277	13. 40	56 ·5	57 ·5
				7. 20	·01290	14. 40	56 ·0	57 ·0
				9. 27	·01313	15. 40	58 ·0	58 ·0
				10. 26	·01270	16. 40	58 ·1	58 ·5
				12. 6	·01338	17. 40	58 ·0	58 ·0
				12. 40	·01331	18. 40	58 ·0	58 ·0
				14. 0	·01380 / ·01366	19. 40	58 ·3	58 ·5
						20. 40	58 ·7	58 ·5
				14. 42	·01348	21. 40	59 ·0	59 ·0
				15. 6	·01342 / ·01265	22. 40	59 ·0	59 ·2
						23. 40	59 ·8	59 ·8
				16. 35	·01260			
				18. 30	·01196			
				19. 30	·01145			
				22. 36	·00983			
				23. 59	·00892			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 29		Sept. 29		Sept. 29		Sept. 29		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 47. 26*	1. 40	·1092*	0. 45	·00777	0. 40	60 ·3	60 ·4
3. 40	48. 17*	3. 40	·1092*	2. 58	·00524	1. 40	61 ·2	61 ·4
9. 40	41. 45*	9. 40	·1092*	3. 37	·00625	2. 40	62 ·0	61 ·4
21. 40	41. 26*	21. 40	·1058*	4. 28	·00501	3. 40	63 ·0	62 ·0
				6. 0	·00512	4. 40	63 ·5	63 ·0
				6. 38	·00562	5. 40	63 ·5	63 ·0
				7. 50	·00504	6. 40	64 ·0	64 ·0
				8. 14	·00512	7. 40	64 ·0	64 ·0
				8. 47	·00481	8. 40	64 ·0	64 ·0
				9. 0	·00742	9. 40	63 ·8	63 ·5
				11. 20	·00718	10. 40	63 ·3	63 ·2
				11. 37	·00751	11. 40	62 ·8	62 ·8
				12. 34	·00762	21. 40	59 ·0	60 ·0
				13. 58	·00815			
				19. 10	·01201			
				20. 47	·01297			
				22. 18	·01363 } ·01262			
				23. 5	·01224			
				23. 35	·01199			
Sept 30		Sept. 30		Sept. 30		Sept. 30		
1. 40	21. 47. 27*	1. 40	·1076*	0. 0	·01170	1. 40	61 ·0	61 ·8
3. 40	48. 34*	3. 40	·1080*	1. 14	·01081	3. 40	63 ·0	64 ·0
9. 40	40. 47*	9. 40	·1097*	2. 0	·00980	9. 40	62 ·0	63 ·0
21. 40	41. 19*	21. 40	·1080*	3. 31	·00660 } ·00744	21. 40	57 ·0	57 ·5
				4. 35	·00618			
				8. 32	·00564			
				9. 50	·00596			
				14. 7	·00913			
				15. 5	·00996			
				18. 26	·01411			
				19. 28	·01390			
				23. 59	·01114			
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
1. 40	21. 46. 34*	1. 40	·1085*	0. 26	·01397	1. 40	60 ·0	60 ·3
3. 40	44. 30*	3. 40	·1084*	1. 33	·01338	3. 40	62 ·0	63 ·0
9. 40	41. 41*	9. 40	·1086*	2. 22	·01239	9. 40	63 ·0	64 ·0
21. 40	39. 29*	21. 40	·1084*	3. 16	·01056	21. 40	58 ·0	59 ·0
				4. 20	·00785			
				5. 12	·00557 } ·00604			
				6. 52	·00577			
				9. 15	·00562			
				10. 36	·00578			
				15. 10	·00844			
				18. 30	·01398			
				18. 56	·01824			
				19. 7	·01416			
				21. 0	·01420			
				23. 10	·01418			
				23. 58	·01385			
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
1. 40	21. 47. 48*	1. 40	·1082*	0. 41	·01383	1. 40	61 ·8	61 ·5
3. 40	45. 21*	3. 40	·1086*	1. 13	·01318 } ·01292	3. 40	63 ·5	64 ·0
9. 40	39. 17*	9. 40	·1080*			9. 40	65 ·2	66 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
h m	° ′ ″	h m		h m		h m	°	°
21. 40	21. 39. 36*	21. 40	·1080*	2. 10	·01157	21. 40	62 ·0	61 ·5
				4. 26	·00617			
				4. 30	·00644			
				5. 19	·00645			
				6. 20	·00629			
				8. 30	·00626 } ·00796			
				10. 52	·00702			
				13. 36	·00734			
				17. 27	·00937			
				20. 47	·01191			
				23. 8	·01283			
				23. 59	·01275			
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
1. 40	21. 48. 48*	1. 40	·1078*		(†)	1. 40	63 ·0	63 ·0
3. 40	45. 12*	3. 40	·1083*	1. 28	·00630	3. 40	64 ·0	65 ·0
9. 40	40. 53*	9. 40	·1082*	3. 9	·00681 } ·00824	9. 40	65 ·0	65 ·5
21. 40	39. 52*	21. 40	·1086*	4. 0	·00746	21. 40	63 ·0	63 ·5
				6. 20	·00696			
				11. 27	·00658			
				14. 43	·00801			
				14. 55	·00938			
				19. 26	·01037			
				22. 49	·01076 } ·00976			
				23. 59	·00958			
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
1. 40	21. 50. 5*	1. 40	·1082*	0. 54	·00924	1. 40	64 ·0	64 ·5
3. 40	49. 38*	3. 40	·1080*	3. 34	·00904	3. 40	64 ·0	65 ·0
9. 40	34. 24*	9. 40	·1069*	4. 14	·00877	9. 40	65 ·0	65 ·7
22. 10	44. 47*	22. 10	·1072*	4. 22	·00878	22. 10	64 ·0	65 ·0
				5. 13	·00837			
				5. 37	·00835			
				5. 58	·00798			
				6. 18	·00802			
				6. 37	·00783			
				6. 46	·00803			
				7. 18	·00718			
				7. 31	·00706 } ·00750			
				8. 11	·00717			
				8. 40	·00755			
				9. 26	·00715			
				10. 0	·00718			
				10. 25	·00697			
				13. 17	·00721			
				13. 37	·00682			
				14. 2	·00677			
				14. 26	·00660			
				15. 30	·00685			
				16. 13	·00658			
				17. 5	·00703			
				17. 56	·00657			
				18. 13	·00683			
				18. 52	·00661			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Off H. F. Magnet.	Off V. F. Magnet.
h m	° ′ ″	h m		Oct. 4 h m		h m	°	°
				19. 5	·00680			
				19. 22	·00679			
				20. 50	·00758			
				22. 12	·00798 (†)			
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
7. 4	21. 40. 28*	7. 4	·1083*	0. 0	·00845	7. 4	64 ·0	64 ·3
21. 40	39. 24*	21. 40	·1075*	1. 31	·00876	12. 40	62 ·8	63 ·3
					·00767	13. 40	62 ·5	63 ·3
				4. 2	·00791	14. 40	62 ·0	62 ·7
				6. 40	·00698	15. 40	61 ·8	62 ·0
				11. 3	·00693	16. 40	61 ·5	62 ·0
				13. 13	·00783	17. 40	61 ·3	61 ·8
				16. 25	·00999	18. 40	61 ·2	61 ·6
				17. 52	·01096	19. 40	61 ·2	61 ·8
				20. 0	·01200	20. 40	61 ·1	61 ·8
				22. 12	·01205	21. 40	61 ·1	62 ·0
				23. 59	·01088	22. 40	61 ·5	62 ·0
						23. 40	62 ·0	62 ·6
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
1. 40	21. 45. 7*	1. 40	·1075*	1. 6	·01077	0. 40	62 ·5	63 ·0
3. 40	45. 54*	3. 40	·1078*	3. 45	·00861	1. 40	62 ·0	63 ·0
9. 40	37. 18*	9. 40	·1093*	4. 13	·00819	2. 40	63 ·3	63 ·5
21. 40	41. 7*	21. 40	·1085*	5. 16	·00798	3. 40	63 ·8	63 ·6
				6. 16	·00683	4. 40	63 ·8	64 ·0
					·00732	5. 40	64 ·0	64 ·3
				8. 22	·00699	6. 40	64 ·0	64 ·8
				9. 10	·00695	7. 40	64 ·6	65 ·2
				10. 31	·00662	8. 40	65 ·1	65 ·0
					·01060	9. 40	65 ·3	65 ·1
				14. 22	·00976	10. 40	65 ·0	66 ·0
				16. 5	·00966	11. 40	65 ·1	65 ·3
				16. 50	·01077	21. 40	62 ·0	62 ·0
				20. 30	·01138			
				23. 59	·01184			
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
1. 40	21. 45. 39*	1. 40	·1081*	1. 20	·01082	1. 40	62 ·0	63 ·0
3. 40	44. 49*	3. 40	·1087*	4. 0	·00998	3. 40	63 ·0	64 ·0
9. 40	40. 56*	9. 40	·1098*	6. 50	·00828	9. 40	64 ·3	64 ·8
21. 40	40. 7*	21. 40	·1093*	8. 20	·00791	21. 40	61 ·0	62 ·0
				10. 35	·00750			
				11. 28	·00758			
				12. 22	·00750			
				18. 14	·01022			
				19. 56	·01096			
				21. 32	·01139			
				23. 59	·01195			
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
1. 40	21. 44. 33*	1. 40	·1086*	0. 52	·01171	1. 40	62 ·0	62 ·3
3. 40	43. 53*	3. 40	·1088*	3. 7	·01111	3. 40	63 ·0	63 ·0
9. 40	42. 55*	9. 40	·1089*	6. 11	·00916	9. 40	62 ·5	63 ·6
21. 40	40. 16*	21. 40	·1098*	7. 30	·00877	21. 40	59 ·0	59 ·4
				10. 20	·00869			
				13. 43	·01090			
				16. 52	·01105			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Off H. F. Magnet.	Off V. F. Magnet.
h m	° ′ ″	h m		Oct. 8 h m		h m	°	°
				19. 19	·01281			
				21. 13	·01390			
				23. 0	·01423			
					·01356			
				23. 59	·01359			
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
1. 40	21. 45. 34*	1. 40	·1070*	0. 30	·01381	1. 40	59 ·0	63 ·0
3. 40	46. 38*	3. 40	·1086*	2. 46	·01417	3. 40	61 ·0	62 ·0
9. 40	38. 24*	9. 40	·1098*	4. 7	·01294	9. 40	61 ·5	61 ·8
21. 40	41. 6*	21. 40	·1091*	5. 46	·01150	21. 40	58 ·0	58 ·5
				7. 13	·01057			
				9. 44	·00976			
				11. 57	·00951			
				12. 47	·00948			
				12. 52	·00957			
				13. 30	·00955			
				23. 7	·01343			
					·01276			
				23. 59	·01285			
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
1. 40	21. 45. 19*	1. 40	·1084*	0. 48	·01264	1. 40	60 ·0	60 ·3
3. 40	43. 56*	3. 40	·1090*	2. 0	·01160	3. 40	61 ·0	62 ·0
9. 40	38. 55*	9. 40	·1104*	3. 3	·00994	9. 40	63 ·0	64 ·0
21. 40	40. 41*	21. 40	·1091*	4. 18	·00732	21. 40	59 ·0	60 ·0
				9. 40	·00688			
				11. 10	·00656			
				20. 5	·01058			
				23. 51	·01117			
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
1. 40	21. 46. 19*	1. 40	·1091*	0. 0	·01117	1. 40	61 ·0	61 ·0
3. 40	44. 41*	3. 40	·1095*	1. 50	·01056	3. 40	62 ·0	63 ·0
9. 40	41. 4*	9. 40	·1097*	2. 48	·00984	9. 40	62 ·8	64 ·0
22. 45	43. 0*	22. 45	·1080*	3. 35	·00908	22. 45	61 ·0	61 ·5
					·00723			
				3. 55	·00744			
					·00843			
				4. 56	·00747			
				7. 12	·00718			
				10. 11	·00731			
				15. 43	·00694			
				16. 59	·00717			
				17. 52	·00714			
				20. 45	·00772			
				23. 3	·00818			
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
9. 30	21. 37. 33*	9. 30	·1081*	0. 0	·00825	9. 30	64 ·5	65 ·0
21. 40	37. 55*	21. 40	·1075*	1. 21	·00827	12. 40	63 ·0	64 ·5
				1. 40	·00845	13. 40	63 ·0	64 ·1
				2. 15	·00820	14. 40	63 ·6	63 ·8
				2. 57	·00834	15. 40	63 ·6	63 ·4
				3. 16	·00798	16. 40	63 ·5	63 ·2
				3. 52	·00804	17. 40	63 ·0	63 ·0
				4. 41	·00738	18. 40	63 ·2	63 ·1
					·00796	19. 40	63 ·0	63 ·2

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
				Oct. 12		Oct. 12		
				7. 35	·00772	20. 40	63 ·2	63 ·2
				9. 10	·00781	21. 40	63 ·7	63 ·0
				11. 17	·00750	22. 40	63 ·8	63 ·2
				11. 47	·00680	23. 40	64 ·0	63 ·6
				14. 14	·00777			
				16. 50	·00832			
				20. 8	·00948			
				22. 5	·00943			
				23. 59	·00867			
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
1. 40	21. 46. 36*	1. 40	·1079*	0. 49	·00823	0. 40	64 ·7	64 ·3
3. 40	45. 39*	3. 40	·1084*	1. 58	·00756	1. 40	65 ·0	64 ·7
9. 40	39. 29*	9. 40	·1084*	2. 35	·00849	2. 40	65 ·5	65 ·5
21. 40	39. 19*	21. 40	·1085*	3. 34	·00862	3. 40	66 ·0	66 ·0
					·01116	4. 40	66 ·2	66 ·5
				4. 55	·01057	5. 40	66 ·5	66 ·8
				6. 7	·01041	6. 40	66 ·5	66 ·8
				7. 2	·01057	7. 40	66 ·6	66 ·5
				8. 13	·01038	8. 40	66 ·8	66 ·9
				12. 10	·01107	9. 40	66 ·5	66 ·5
				14. 11	·01209	10. 40	66 ·5	66 ·6
				18. 7	·01558	11. 40	66 ·2	66 ·0
				22. 5	·01583	21. 40	60 ·6	61 ·5
				23. 33	·01530			
				23. 59	·01538			
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 10	21. 46. 0	0. 30	·1085	0. 45	·01523	1. 40	60 ·7	61 ·0
0. 39	46. 30		***	1. 47	·01541	3. 40	61 ·3	62 ·0
0. 58	47. 50	1. 40	·1085*		(†)	9. 40	61 ·8	62 ·5
1. 7	47. 30	3. 50	·1096	3. 52	·01524	21. 40	60 ·0	59 ·7
1. 25	47. 55	5. 40	·1097	5. 49	·01485			
1. 38	47. 10	5. 58	·1100	7. 30	·01387			
2. 0	47. 30	6. 13	·1096	9. 1	·01341			
3. 50	44. 50	7. 5	·1099	11. 36	·01296			
4. 23	43. 10	7. 26	·1097	16. 40	·01404			
5. 30	32. 0	8. 24	·1096	18. 50	·01442			
6. 0	41. 50	8. 34	·1097	20. 54	·01458			
6. 15	42. 50	9. 4	·1094		·01521			
8. 38	40. 45	9. 44	·1097	23. 59	·01523			
9. 6	41.	10. 0	·1094					
9. 26	40. 50	10. 26	·1100					
9. 44	36. 20	10. 44	·1093					
10. 27	40. 5	10. 58	·1098					
10. 54	40. 0	11. 40	·1094					
11. 7	41. 0	13. 4	·1094					
11. 25	40. 40	13. 58	·1100					
12. 45	41. 55	14. 10	·1098					
13. 8	42. 50	14. 57	·1100					
13. 40	42. 30	18. 16	·1102					
13. 55	42. 50	18. 30	·1100					
14. 20	42. 50	19. 5	·1104					
15. 7	43. 0	19. 33	·1099					
15. 35	42. 0	20. 0	·1101					
16. 0	42. 25	20. 45	·1100					
16. 25	42. 55	22. 20	·1086					
18. 3	42. 45	23. 4	·1084					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
Oct. 14		Oct. 14						
18. 15	21. 42. 0	23. 47	·1085					
19. 10	41. 20	23. 59	·1080					
21. 20	40. 25							
23. 10	46. 40							
23. 30	48. 0							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
	(†)	0. 0	·1080	1. 4	·01490	1. 40	61 ·0	62 ·0
1. 10	21. 50. 15	0. 35	·1077	2. 11	·01459	3. 40	61 ·0	61 ·0
2. 45	48. 50	1. 40	·1079	3. 52	·01443	9. 40	61 ·0	61 ·8
3. 5	48. 20	2. 48	·1079	6. 18	·01302	21. 40	59 ·0	59 ·0
3. 20	44. 0	3. 44	·1085	9. 45	·01238			
3. 34	41. 40	4. 0	·1097	18. 24	·01320			
4. 5	44. 0	4. 24	·1093	20. 12	·01358			
4. 30	44. 30	5. 37	·1100	23. 59	·01362			
6. 0	42. 0	6. 13	·1100					
6. 20	42. 0	6. 27	·1096					
7. 45	40. 45	7. 0	·1101					
8. 21	40. 10	7. 30	·1099					
8. 43	40. 30	8. 58	·1102					
10. 20	38. 30	9. 4	·1098					
10. 30	38. 20	9. 35	·1094					
10. 45	39. 0	10. 40	·1094					
11. 6	38. 30	11. 2	·1096					
11. 50	40. 0	11. 10	·1094					
12. 15	40. 45	11. 15	·1097					
14. 25	41. 0	11. 45	·1095					
16. 30	41. 0	11. 58	·1098					
18. 15	40. 30	12. 4	·1097					
20. 33	38. 45	12. 24	·1098					
21. 34	39. 0	12. 56	·1096					
22. 38	43. 0	14. 42	·1098					
23. 30	44. 45	15. 0	·1098					
23. 59	44. 50	16. 24	·1100					
		16. 35	·1102					
		18. 5	·1102 ***					
		20. 0	·1099 ***					
		21. 15	·1092 ***					
		22. 32	·1084 ***					
		23. 59	·1084					
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 0	21. 44. 50	0. 0	·1084	0. 39	·01358	1. 40	60 ·0	60 ·0
0. 26	45. 0	1. 0	·1085	2. 17	·01312	3. 40	60 ·0	61 ·0
0. 30	46. 20	1. 10	·1088	3. 32	·01223	9. 40	62 ·0	62 ·5
0. 37	45. 0	2. 15	·1092	6. 50	·00882	21. 40	59 ·0	59 ·0
1. 25	46. 0	2. 40	·1094	8. 35	·00761			
1. 45	45. 45	2. 45	·1092	9. 52	·00702			
3. 0	46. 0	2. 58	·1096	14. 38	·00681			
5. 34	41. 20	3. 54	·1094	16. 26	·00744			
6. 30	41. 20	4. 16	·1097	19. 17	·00897			
7. 10	40. 0	4. 30	·1096	21. 12	·00975			
7. 33	40. 0	5. 40	·1099	22. 37	·00982			
8. 2	39. 0	6. 4	·1099	23. 32	·00961			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 16		Oct. 16		Oct. 16				
h m	° ′ ″	h m		h m		h m	°	°
8. 33	21. 39. 45	6. 30	·1097	23. 59	·00919			
9. 34	40. 0	7. 53	·1098					
10. 12	40. 0	8. 5	·1096					
10. 28	38. 45	8. 27	·1099					
10. 45	38. 50	8. 53	·1097					
11. 15	40. 0	9. 13	·1098					
12. 15	40. 5	9. 48	·1096					
12. 52	40. 50	10. 13	·1097					
13. 50	41. 0	10. 30	·1106					
14. 36	44. 45	10. 55	·1099					
15. 13	43. 20	11. 24	·1098					
15. 37	44. 50	11. 34	·1100					
15. 53	44. 45	12. 0	·1099					
16. 45	42. 30	12. 10	·1101					
17. 27	42. 0	12. 25	·1098					
17. 45	41. 25	12. 56	·1102					
18. 5	41. 50	13. 0	·1100					
21. 31	36. 0	13. 20	·1102					
23. 30	42. 10	14. 41	·1101					
23. 40	42. 0	14. 56	·1100					
23. 59	42. 50	16. 3	·1105					
		16. 28	·1103					
		17. 4	·1105					
		18. 0	·1106					
		18. 43	·1106					
		19. 16	·1107					
		20. 54	·1102					
		21. 15	·1100					
		21. 30	·1095					
		22. 4	·1094					
		22. 15	·1091					
		23. 13	·1087					
		23. 59	·1086					
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 0	21. 42. 50	0. 0	·1086	0. 41	·00903	1. 40	61 ·5	62 ·c
0. 37	43. 45	1. 5	·1084	2. 15	·00622	3. 40	62 ·5	63 ·c
1. 4	44. 45	2. 6	·1082	2. 22	·00717	9. 40	62 ·c	62 ·o
2. 15	44. 0	3. 56	·1086	3. 20	·00739	21. 40	59 ·o	59 ·5
3. 30	43. 0	4. 10	·1087	6. 17	·00740			
5. 7	40. 5	5. 14	·1090		·01062			
5. 55	39. 50	5. 26	·1092	8. 34	·01016			
6. 15	39. 40	6. 26	·1091	11. 10	·01082			
6. 36	39. 50	7. 58	·1093	17. 47	·01456			
9. 23	39. 30	9. 0	·1094	21. 52	·01511			
9. 45	32. 0	10. 30	·1093	23. 11	·01514			
11. 50	39. 30	14. 0	·1099	23. 59	·01492			
12. 5	41. 0	15. 29	·1099					
12. 34	40. 0	15. 50	·1101					
14. 0	39. 40	16. 2	·1100					
14. 45	40. 10	16. 37	·1103					
15. 15	40. 0	16. 45	·1101					
15. 55	41. 0	17. 40	·1104					
16. 10	40. 45	19. 24:	·1105					
16. 34	40. 50	20. 40	·1099					
17. 7	40. 0	22. 0	·1089					
19. 0	39. 0	23. 59	·1087					
21. 5	37. 30							
22. 7	38. 5							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 17								
h m	° ′ ″	h m		h m		h m	′	″
23. 24	21. 43. 0							
23. 50	41. 50							
23. 59	42. 10							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 0	21. 42. 0	0. 0	·1087	0. 34	·01468	1. 40	61 ·5	61 ·5
0. 30	43. 0	1. 20	·1088	2. 7	·01323	3. 40	62 ·c	63 ·c
1. 5	43. 30	1. 54	·1092	2. 50	·01236	9. 40	63 ·o	63 ·8
1. 20	43. 0	4. 12	·1094	3. 22	·00995	22. 50	55 ·c	56 ·o
2. 30	41. 50	4. 35	·1097	4. 18	·00903			
4. 40	38. 0	5. 25	·1096		·01218			
9. 3	37. 45	8. 54	·1098	5. 32	·01158			
10. 0	38. 20	10. 40	·1098	8. 10	·01290			
11. 5	39. 45	11. 30	·1095	11. 34	·01437			
12. 0	39. 0	11. 44	·1098	13. 5	·01556			
12. 15	38. 40	12. 0	·1097		·01523			
12. 43	39. 0	12. 14	·1099	15. 10	·01502			
13. 5	40. 0 ***	13. 10	·1098	18. 48	·01456			
		13. 28	·1099	22. 37	·01439 (†)			
13. 25	39. 30 ***	14. 10	·1100					
		15. 25	·1104					
14. 5	40. 0 ***	16. 4	·1104					
		16. 24	·1106					
15. 7	39. 50 ***	18. 55:	·1108					
		20. 40	·1103					
16. 10	40. 40 ***	22. 13	·1094					
		23. 59	·1096					
18. 20	39. 45 ***							
20. 7	38. 0							
20. 30	38. 0							
20. 58	37. 30							
22. 27	40. 0							
22. 50	40. 45							
23. 40	41. 30							
23. 59	41. 45							
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
0. 0	21. 41. 45	0. 0	·1096	0. 0	·01437	6. 57	61 ·0	62 ·o
0. 45:	41. 50	0. 48	·1100	1. 2	·01420	12. 40	61 ·7	61 ·7
1. 50	41. 0	2. 56	·1104	1. 50	·01398	13. 40	61 ·6	61 ·8
3. 40	38. 35	3. 14	·1102	2. 31	·01341	14. 40	61 ·5	61 ·3
6. 34	38. 0	3. 28	·1103	3. 10	·01262	15. 40	61 ·4	62 ·o
9. 42	38. 30	5. 30	·1098	6. 18	·00636	16. 40	61 ·3	62 ·o
9. 56	37. 0	6. 3	·1100	7. 0	·00670	17. 40	61 ·2	61 ·4
11. 8	36. 0	10. 43	·1099	9. 52	·00662	18. 40	61 ·3	61 ·8
11. 21	36. 0	10. 55	·1103	15. 5	·00621	19. 40	61 ·5	62 ·c
11. 33	36. 50	11. 14	·1100	17. 39	·00657	20. 40	61 ·8	62 ·5
12. 4	35. 45	11. 48	·1100		·01090	21. 40	62 ·0	62 ·3
13. 0	34. 45	12. 12	·1097	19. 32	·01092	22. 40	62 ·4	62 ·6
14. 26	38. 40	12. 43	·1104		·01143	23. 40	62 ·8	62 ·9
14. 55	38. 0	12. 59	·1102	22. 30	·01038			
15. 15	38. 45	13. 2	·1102	23. 59	·00893			
17. 12	38. 55	13. 29	·1097					
17. 26	39. 45	15. 29	·1102					
18. 11	38. 50	17. 5	·1103					
19. 4	36. 30	17. 20	·1102					
19. 50	37. 0	19. 0	·1106					
20. 34	36. 0	19. 46	·1106					

October 14. The time-piece giving motion to the cylinder for register of the Declination and Horizontal Force was remounted, having been altered to make the cylinder revolve in 24 hours instead of 12 hours as formerly.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 19		Oct. 19						
h m	° ′ ″	h m		h m		h m	°	°
21. 8	21. 37. 20	20. 10	·1153					
22. 6	44. 45	20. 15	·1104					
23. 37	46. 30	20. 54	·1096					
23. 59	45. 0	22. 13	·1080					
		22. 45	·1085					
		23. 15	·1084					
		23. 26	·1090					
		23. 59	·1086					
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 0	21. 45. 0	0. 0	·1086	1. 25	·01182	0. 40	63·2	63·8
0. 27	45. 0	0. 34	·1094	2. 32	·01171	1. 40	65·0	65·2
1. 39	46. 30	0. 41	·1091	4. 30	·01179	2. 40	65·7	66·0
2. 0	46. 10		(†)	7. 7	·01301	3. 40	66·3	66·7
2. 43	42. 0	1. 40	·1089	9. 40	·01497	4. 40	67·0	67·1
3. 5	42. 45	2. 15	·1086	10. 18	·01515	5. 40	67·0	67·0
4. 35	40. 0	2. 29	·1085	15. 10	·01436	6. 40	67·1	67·0
6. 30	39. 0	2. 45	·1086	22. 7	·01453	7. 40	67·0	67·0
7. 40	39. 0	3. 5	·1093		·01362	8. 40	66·5	66·0
7. 58	37. 10	3. 33	·1090	23. 42	·01361	9. 40	66·2	67·0
8. 12	38. 0	4. 5	·1092			10. 40	65·9	66·5
8. 30	37. 20	4. 30	·1089			11. 40	65·0	65·0
8. 44	37. 30	4. 40	·1090			21. 40	60·0	59·0
9. 0	35. 0	5. 29	·1088					
	(†)	5. 49	·1090					
9. 40	33. 5	6. 30	·1091					
13. 48	32. 30	7. 0	·1094					
14. 10	45. 20	7. 50	·1096					
14. 45	40. 10	8. 0	·1088					
15. 30	39. 0	8. 35	·1092					
16. 46	40. 40	8. 59	·1086					
17. 38	40. 50	9. 15	·1089					
20. 27	42. 20	9. 42	·1084					
22. 0	41. 0	9. 57	·1088					
23. 12	45. 0	10. 15	·1088					
23. 59	45. 35	11. 0	·1095					
		11. 54	·1098					
		13. 16	·1098					
		13. 58	·1097					
		14. 30	·1104					
		14. 41	·1104					
		14. 55	·1107					
		15. 10	·1104					
		17. 55	·1104					
		18. 32	·1107					
			(†)					
		21. 40	·1091*					
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 0	21. 45. 35	0. 0	·1093	0. 15	·01371	1. 40	61·5	62·0
0. 15	45. 50	0. 56	·1099	1. 0	·01320	3. 40	62·0	63·5
0. 52	47. 20	1. 12	·1096	2. 45	·01125	9. 40	63·3	63·5
1. 12	46. 5	1. 50	·1096		(†)	21. 40	57·5	60·5
1. 50	46. 15	2. 7	·1093	3. 40	·00959*			
3. 15	43. 0	3. 0	·1095	9. 40	·00544*			
3. 35	43. 20	3. 5	·1096	12. 16	·00739			
3. 56	42. 20	3. 30	·1094	13. 10	·00878			
4. 20	41. 30		(†)	13. 41	·00923			
	(†)	9. 40	·1106	16. 32	·00984			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 21		Oct. 21		Oct. 21				
h m	° ′ ″	h m		h m		h m	°	°
9. 40	21. 42. 12*	12. 33	·1113	17. 22	·01004			
11. 30	41. 10	12. 50	·1106	18. 20	·01056			
11. 42	40. 50	13. 6	·1109	20. 10	·01276			
12. 0	41. 50	13. 55	·1104	22. 34	·01296			
12. 35	40. 25	15. 3	·1103	23. 18	·01317			
13. 0	42. 0	15. 40	·1105	23. 59	·01296			
14. 36	41. 5	16. 30	·1105					
16. 10	42. 55	17. 35	·1107					
20. 34	41. 0	18. 25	·1109					
21. 30	44. 0	18. 55	·1112					
21. 57	43. 10	19. 6	·1111					
22. 53	44. 50	19. 15	·1113					
23. 5	45. 50	20. 18	·1109					
23. 15	45. 0	21. 0	·1112					
23. 38	45. 15		***					
		22. 57	·1094					
		23. 10	·1097					
		23. 48	·1095					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
1. 40	21. 45. 9*	0. 27	·1104	0. 40	·01250	1. 40	60·5	63·5
	(†)	0. 30	·1108	1. 22	·01162	3. 40	64·0	66·5
2. 0	46. 30	0. 40	·1104	2. 26	·00978	9. 40	66·5	68·0
2. 36	46. 15	0. 51	·1107	2. 31	·00970	21. 40	62·0	65·0
2. 52	46. 0	1. 1	·1102	3. 2	·00860			
3. 33	46. 0	1. 28	·1103	3. 11	·00865			
3. 42	45. 50	1. 49	·1109	3. 14	·00823			
4. 0	46. 50	2. 0	·1106	3. 21	·00798			
4. 14	44. 25	2. 15	·1111		·00854			
4. 26	45. 0	2. 28	·1102	4. 10	·00982			
4. 34	44. 0	2. 34	·1111	4. 29	·00959			
4. 57	44. 55	2. 40	·1104	5. 22	·00968			
5. 28	42. 40	2. 50	·1108		·01151			
5. 45	42. 50	3. 18	·1092	5. 54	·01099			
6. 8	45. 0	3. 27	·1074	6. 29	·01157			
6. 42	21. 20	3. 35	·1061	6. 47	·01221			
7. 7	30. 0	4. 10	·1092	7. 57	·01221			
7. 35	36. 30	4. 27	·1072	8. 12	·01225			
8. 0	36. 45	4. 50	·1088	9. 8	·01229			
8. 27	41. 0	5. 0	·1082	9. 40	·01295			
8. 56	39. 30	5. 29	·1082	10. 34	·01278			
9. 14	37. 0	5. 40	·1088	11. 5:	·01280			
9. 40	27. 0	5. 45	·1086	11. 30	·01180			
10. 7	26. 30	6. 2	·1094	12. 52	·01246			
10. 43	32. 10	6. 16	·1085	13. 40	·01283			
11. 2	21. 0	6. 32	·1060	15. 28	·01422			
11. 25	31. 5	6. 38	·1059	19. 9	·01628			
11. 37	20. 0	7. 0	·1092	20. 17	·01656			
12. 5	34. 0	7. 3	·1093	22. 0	·01657			
12. 18	26. 30	7. 25	·1081		·01536			
12. 39	25. 45	7. 30	·1079	22. 50	·01534			
13. 7	24. 0	7. 42	·1082	23. 59	·01592			
13. 28	36. 10	7. 54	·1087					
13. 50	37. 30	8. 1	·1081					
14. 37	36. 0	8. 16	·1090					
15. 0	38. 15	8. 30	·1088					
15. 40	37. 30	8. 43	·1090					
16. 15	38. 20	8. 57	·1086*					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 22		Oct. 22						
h m	° ′ ″	h m		h m		h m		
16. 27	21. 40. 0	9. 0	·1084					
17. 7	38. 30	9. 13	·1073					
17. 21	41. 0	9. 30	·1076					
17. 37	40. 0	9. 40	·1091					
18. 12	42. 30	10. 18	·1081					
18. 50	42. 30	10. 30	·1073					
20. 8	40. 30	10. 58	·1079					
20. 40	43. 30	11. 24	·1128					
21. 0	40. 0	11. 35	·1105					
22. 25	44. 0	12. 0	·1138					
23. 27	46. 0	12. 8	·1121					
		12. 18	·1122					
		12. 30	·1082					
		12. 45	·1082					
		12. 50	·1092					
		13. 2	·1093					
		13. 14	·1086					
		13. 33	·1090					
		14. 0	·1086					
		14. 29	·1090					
		16. 40	·1093					
		17. 17	·1090					
		17. 53	·1094					
		18. 30	·1087					
		19. 24	·1092					
		19. 54	·1089					
		20. 18	·1090					
		20. 31	·1094					
		21. 24	·1086					
		22. 0	·1087					
		22. 14	·1080					
		22. 55	·1054					
		23. 2	·1059					
		23. 15	·1054					
		23. 59	·1076					
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 13	21. 49. 0	0. 0	·1076	0. 33	·01581	1. 40	63·0	65·8
0. 55	47. 0	1. 42	·1078	2. 7	·01571	3. 40	64·3	67·0
1. 15	48. 30	1. 54	·1072	3. 34	·01557	9. 40	65·0	65·7
1. 42	48. 30	2. 2	·1080	4. 5	·01398	21. 40	62·0	64·0
2. 5	50. 0	2. 29	·1082	5. 22	·01300			
2. 15	37. 0	2. 31	·1076	5. 59	·01251			
2. 28	50. 0	2. 45	·1084	8. 2	·01181			
2. 34	46. 0	2. 55	·1084		·01386			
2. 43	46. 0	3. 0	·1066	8. 31	·01361			
3. 0	38. 30	3. 7	·1071	9. 7	·01306			
3. 14	34. 0	3. 15	·1063	10. 45	·01296			
3. 30	34. 5	3. 44	·1070	11. 40	·01304			
3. 50	42. 10	3. 56	·1057	14. 0	·01382			
4. 21	45. 0	4. 15	·1070	14. 31	·01358			
5. 16	43. 0	4. 27	·1066	14. 52	·01363			
5. 45	39. 0	4. 45	·1074	15. 17	·01368			
6. 3	40. 15	4. 55	·1068	15. 52	·01449			
6. 18	36. 55	5. 0	·1068	17. 35	·01525			
6. 44	39. 40	5. 26	·1083	20. 7	·01618			
7. 6	37. 45	5. 54	·1082	21. 18	·01617			
7. 18	39. 0	6. 0	·1088	21. 45	·01600			
7. 47	38. 5	6. 8	·1088		·01405			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 23		Oct. 23		Oct. 23				
h m	° ′ ″	h m		h m				
8. 7	21. 23. 5	6. 15	·1082	23. 5	·01536			
8. 34	30. 0	6. 20	·1084					
8. 53	33. 35	6. 30	·1080					
9. 12	32. 20	6. 54	·1089					
9. 46	39. 40	7. 0	·1091					
10. 5	35. 20	7. 20	·1088					
10. 15	35. 50	7. 45	·1093					
10. 29	34. 30	7. 54	·1088					
10. 34	34. 0	8. 14	·1080					
11. 3	32. 5	8. 43	·1132					
11. 34	33. 50	9. 0	·1114					
13. 2	41. 0	9. 14	·1112					
13. 33	50. 20	9. 24	·1103					
13. 36	44. 25	9. 40	·1106					
13. 51	44. 5	9. 58	·1102					
14. 9	39. 30	10. 10	·1091					
14. 44	46. 5	10. 23	·1094					
15. 0	44. 10	10. 27	·1095					
15. 6	45. 0	10. 30	·1094					
15. 33	41. 35	10. 32	·1091					
16. 3	40. 45	10. 40	·1091					
16. 20	42. 25	10. 46	·1090					
17. 25	44. 50	10. 58	·1098					
17. 36	42. 55	11. 15	·1104					
17. 50	43. 30	11. 20	·1098					
18. 9	43. 55	11. 35	·1088					
18. 45	42. 10	11. 54	·1087					
19. 30	43. 30	12. 4	·1082					
20. 5	40. 0	12. 14	·1082					
21. 45	43. 5	12. 29	·1091					
22. 14	45. 40	12. 40	·1091					
22. 35	44. 15	13. 20	·1096					
22. 59	45. 5	13. 30	·1090					
	(†)	13. 40	·1091					
		14. 0	·1084					
		14. 15	·1095					
		14. 31	·1083					
		15. 0	·1083					
		15. 10	·1089					
		15. 15	·1088					
		15. 27	·1095					
		15. 33	·1096					
		15. 46	·1104					
		16. 10	·1101					
		16. 23	·1101					
		16. 53	·1088					
		17. 0	·1090					
		17. 4	·1088					
		17. 15	·1094					
		18. 21	·1086					
		19. 25	·1090					
		20. 45	·1085					
		22. 48	·1083					
		23. 0	·1085					
			(†)					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
1. 40	21. 47. 8*	0. 27	·1091	1. 8	·01478	1. 40	65·0	65·0
3. 40	45. 37*	2. 0	·1093	2. 32	·01488	3. 40	65·0	65·0

October 24. Declination. The Photographic Trace was too faint for use.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Oct. 24	
h m	° ′ ″
9. 40	21. 41. 31*
21. 40	42. 54*
Oct. 25	
0. 20	21. 43. 25
1. 0	43. 35
1. 15	41. 40
2. 0	42. 0
2. 34	41. 0
2. 36	41. 50
3. 12	40. 15
3. 50	40. 45
4. 6	39. 55
5. 54	40. 50
6. 57	40. 55
7. 36	42. 20
7. 0	40. 0
8. 7	33. 0
8. 15	32. 35
8. 27	33. 55
9. 37	36. 20
9. 54	37. 45
11. 0	40. 0
	(†)
21. 40	42. 49
22. 50	41. 42*
Oct. 26	
0. 0	21. 42. 50
0. 45	44. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 24	
h m	
2. 45	·1095
3. 40	·1095
3. 58	·1092
6. 32	·1087
8. 5	·1098
9. 0	·1098
10. 48	·1102
11. 0	·1107
11. 20	·1105
11. 28	·1102
11. 40	·1100
11. 54	·1106
12. 17	·1104
12. 28	·1102
12. 45	·1107
12. 59	·1105
13. 28	·1109
13. 55	·1100
14. 33	·1102
15. 5	·1101
15. 27	·1103
16. 5:	·1111
16. 45	·1108
17. 13	·1105
17. 30	·1101
18. 27	·1109
19. 0	·1100
19. 34	·1108
20. 30	·1103
22. 5	·1100
23. 18	·1102
Oct. 25	
0. 20	·1094
1. 45	·1096
	***
3. 10	·1095
3. 32	·1098
4. 1	·1096
4. 10	·1088
4. 24	·1094
5. 30	·1096
6. 0	·1092
7. 29	·1093
8. 7	·1095
8. 14	·1108
8. 27	·1114
8. 30	·1110
9. 40	·1092
9. 54	·1097
10. 40	·1097
	(†)
22. 50	·1100*
Oct. 26	
0. 0	·1097
3. 55	·1105

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 24	
h m	
3. 20	·01394
5. 55	·01141
6. 43	·01098
7. 49	·01098 / ·01316
9. 6	·01317
10. 30	·01378
14. 10	·01523
16. 39	·01538
20. 5	·01577
20. 59	·01564
22. 32	·01532 / ·01418
23. 45	·01458
23. 59	·01481
Oct. 25	
0. 22	·01458
2. 18	·01456
3. 17	·01414
4. 50	·01130
6. 3	·00998
8. 50	·00969
10. 43	·01054
14. 44	·01418
16. 46	·01437
19. 10	·01420
20. 0	·01441
22. 18	·01408
23. 16	·01418
Oct. 26	
0. 0	·01440
2. 48	·01303

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 24		
h m	°	°
9. 40	63 ·5	66 ·0
21. 40	58 ·0	61 ·0
Oct. 25		
1. 40	59 ·0	61 ·0
3. 40	61 ·0	63 ·0
9. 40	60 ·0	63 ·0
22. 50	51 ·0	51 ·6
Oct. 26		
9. 35	54 ·5	56 ·0
12. 40	53 ·0	57 ·2

Göttingen Mean Solar Time.	Western Declination.
Oct. 26	
h m	° ′ ″
1. 55	21. 43. 50
3. 41	41. 10
4. 13	39. 40
5. 45	39. 45
6. 7	38. 30
6. 21	33. 25
6. 37	35. 30
6. 45	32. 0
7. 20	36. 50
8. 5	38. 30
8. 22	38. 0
9. 57	39. 50
10. 15	39. 45
10. 34	38. 15
11. 2	39. 0
11. 7	37. 35
11. 21	37. 45
11. 34	34. 55
12. 0	38. 50
12. 5	37. 0
13. 7	42. 15
13. 25	41. 15
13. 40	41. 50
14. 7	40. 50
15. 4	41. 40
15. 26	44. 0
16. 13	41. 30
16. 53	41. 45
17. 24	40. 0
17. 40	40. 45
18. 51	39. 5
19. 50	38. 40
20. 40	39. 0
21. 30	40. 40
21. 50	41. 0
22. 11	42. 55
23. 32	45. 20
Oct. 27	
0. 34	21. 45. 50
2. 25	45. 50
6. 56	40. 0
10. 45	40. 35
11. 0	39. 0
11. 12	38. 45
11. 23	36. 10
12. 6	38. 30
12. 37	36. 20
12. 57	37. 40
13. 7	37. 20
14. 12	39. 15
14. 41	45. 0
15. 10	43. 35
15. 30	43. 50
15. 45	42. 35
16. 4	42. 50
16. 43	41. 25
17. 27	41. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 26	
h m	
4. 5	·1102
6. 2	·1102
6. 14	·1088
6. 40	·1094
6. 58	·1107
7. 0	·1106
7. 17	·1098
7. 48	·1096
	***
9. 50	·1099
10. 14	·1104
10. 26	·1100
10. 55	·1103
11. 10	·1129
11. 15	·1121
11. 31	·1114
11. 47	·1120
12. 0	·1114
12. 16	·1111
12. 34	·1104
12. 50	·1103
13. 11	·1094
13. 43	·1100
13. 50	·1098
14. 55	·1102
15. 45	·1098
15. 55	·1094
16. 4	·1100
17. 5	·1109
17. 30	·1106
18. 40	·1107
19. 0	·1103
19. 16	·1105
19. 30	·1104
20. 28	·1102
23. 0	·1095
23. 20	·1096
Oct. 27	
0. 26	·1084
0. 50	·1087
1. 26	·1086
2. 37	·1089
2. 54	·1087
3. 2	·1089
3. 31	·1087
5. 44	·1091
6. 20	·1087
7. 24	·1090
7. 42	·1092
8. 28	·1090
8. 55	·1046
9. 54	·1043
10. 13	·1046
10. 34	·1056
11. 1	·1052
11. 10	·1051
11. 20	·1044

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 26	
h m	
4. 17	·01191
5. 55	·01005
6. 20	·00999
8. 5	·00825
9. 17	·00761
10. 46	·00716
11. 7	·00720
12. 13	·00739
12. 52	·00790
14. 35	·00961
15. 50	·01067
18. 7	·01198
19. 20	·01217
21. 58	·01169
23. 35	·01105
Oct. 27	
0. 32	·01038
2. 5	·00851
5. 18	·00637
5. 47	·00717
6. 32	·00720
7. 34	·00683
8. 28	·00655
9. 22	·00696
10. 50	·00798
11. 25	·00822
13. 58	·01057
17. 3	·01450
18. 6	·01412
20. 3	·01450
21. 54	·01418
23. 44	·01408 / ·01341
23. 59	·01360

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 26		
h m	°	°
13. 40	52 ·8	56 ·0
14. 40	52 ·2	55 ·4
15. 40	52 ·0	55 ·0
16. 40	52 ·0	55 ·0
17. 40	52 ·8	55 ·1
18. 40	53 ·1	55 ·4
19. 40	53 ·1	55 ·6
20. 40	53 ·3	55 ·6
21. 40	54 ·0	57 ·0
22. 40	54 ·2	57 ·4
23. 40	55 ·3	58 ·0
Oct. 27		
0. 40	56 ·0	58 ·5
1. 40	56 ·6	59 ·0
2. 40	57 ·3	60 ·5
3. 40	59 ·0	62 ·0
4. 40	59 ·1	62 ·0
5. 40	59 ·4	62 ·1
6. 40	59 ·0	60 ·2
7. 40	60 ·0	63 ·0
8. 40	59 ·7	62 ·3
9. 40	59 ·3	62 ·5
10. 40	59 ·0	62 ·0
11. 40	58 ·7	61 ·8
21. 40	50 ·8	54 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 27		Oct. 27						
h m	° ′ ″	h m		h m		h m	°	
17. 50	21. 40. 45	11. 30	·1052					
18. 27	41. 50	11. 35	·1051					
19. 57	40. 10	11. 57	·1057					
20. 0	40. 55	12. 8	·1054					
	(†)	12. 13	·1051					
21. 40	40. 58*	12. 33	·1050					
		12. 48	·1053					
		13. 4	·1051					
		13. 30	·1051					
		13. 34	·1048					
		13. 48	·1051					
		14. 2	·1047					
		14. 24	·1046					
		15. 8	·1058					
		15. 16	·1054					
		17. 50	·1059					
		19. 0	·1064					
			(†)					
		21. 40	·1061*					
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
	(†)		(†)		(†)	1. 40	51 ·2	54 ·0
1. 0	21. 46. 0	0. 56	·1051	1. 10	·01339	3. 40	53 ·0	56 ·0
2. 10	45. 35	1. 55	·1055	2. 35	·01287	9. 40	55 ·0	58 ·3
3. 40	42. 55	3. 46	·1058	3. 30	·01223	21. 40	48 ·0	52 ·0
4. 24	41. 10	4. 2	·1055	6. 12	·00898			
4. 42	41. 0	5. 44	·1060	7. 43	·00696			
5. 10	40. 25	6. 0	·1059	8. 34	·00626			
5. 35	40. 40	6. 36	·1062	10. 13	·00670			
6. 7	39. 50	7. 5	·1060	11. 7	·00581			
6. 34	40. 50	8. 16	·1060	12. 3	·00630			
10. 0	40. 5	10. 0	·1063	14. 27	·00892			
10. 36	40. 45	10. 24	·1066	17. 48	·01337			
11. 37	40. 20	10. 45	·1064	18. 58	·01366			
11. 46	42. 0	10. 50	·1066	21. 7	·01418			
12. 9	40. 5	11. 49	·1061	21. 45	·01401			
12. 26	40. 55	12. 0	·1062	22. 52	·01296			
13. 0	39. 50	12. 15	·1070	23. 59	·01243			
13. 30	41. 55	12. 37	·1066					
15. 9	42. 50	12. 48	·1063					
	***	13. 2	·1065					
18. 23	41. 30	13. 28	·1065					
18. 50	41. 50	14. 14	·1067					
20. 27	39. 45	14. 28	·1067					
21. 15	40. 35	14. 42	·1069					
23. 59	45. 30	15. 20	·1079					
		16. 5	·1075					
		16. 20	·1074					
		16. 32	·1077					
		17. 30	·1076					
		19. 27	·1074					
		20. 40	·1072					
		23. 25	·1061					
		23. 59	·1062					
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
1. 40	21. 45. 58*	1. 40	·1063*	1. 10	·01157	1. 40	49 ·0	51 ·7
3. 40	43. 49*	3. 40	·1065*	1. 38	·01122	3. 40	51 ·0	54 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
h m	° ′ ″	h m		h m		h m		
9. 40	21. 41. 3*	9. 40	·1065*	2. 22	·01001	9. 40	54 ·1	56 ·0
21. 40	39. 18*	21. 40	·1065*	3. 21	·00902	21. 40	49 ·0	52 ·0
				6. 15	·00530			
				7. 0	·00464			
				7. 6	·00500			
				11. 15	·00463			
				14. 43	·00685			
				18. 37	·01109			
				19. 17	·01163			
				19. 46	·01196			
				19. 50	·01047			
				20. 34	·01077			
				21. 5	·01057			
				22. 22	·00960			
				23. 32	·00848			
				23. 59	·00790			
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
	(†)		(†)		(†)	1. 40	52 ·0	53 ·0
1. 40	21. 45. 48*	1. 40	·1059*	1. 0	·00677	3. 40	54 ·0	55 ·0
2. 10	44. 40	2. 9	·1059	2. 56	·00458	9. 40	56 ·5	57 ·0
2. 30	44. 45	3. 0	·1057		·00578	21. 40	54 ·8	56 ·0
4. 27	42. 10	3. 24	·1059	3. 47	·00527			
9. 15	41. 0	3. 52	·1056	5. 36	·00535			
10. 0	41. 5	4. 30	·1057	7. 7	·00580			
11. 7	40. 50	6. 0	·1060	9. 24	·00548			
11. 28	40. 30	8. 15	·1058	10. 55	·00515			
11. 45	42. 50	10. 32	·1061	13. 5	·00500			
12. 7	41. 35	10. 54	·1066	17. 45	·00766			
12. 19	43. 0	11. 24	·1062	19. 18	·00818			
12. 33	42. 30	11. 30	·1068	20. 15	·00830			
12. 50	43. 0	11. 54	·1064	21. 10	·00820			
13. 22	40. 55	12. 0	·1068	22. 47	·00758			
14. 15	44. 0	12. 14	·1066	23. 45	·00700			
15. 40	42. 40	12. 31	·1074					
18. 6	42. 0	12. 43	·1070					
19. 25	41. 20	13. 40	·1060					
21. 34	40. 40	14. 40	·1068					
22. 45	42. 10	15. 14	·1066					
23. 40	44. 0	17. 56	·1074					
23. 59	45. 0	19. 24	·1071					
		20. 52	·1062					
		22. 24	·1054					
		23. 59	·1055					
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 0	21. 45. 0	0. 0	·1055	0. 0	·00690	1. 40	57 ·0	58 ·0
1. 15	46. 5	0. 24	·1056	1. 42	·00581	3. 40	59 ·0	60 ·0
2. 27	45. 45	1. 10	·1052		·00653	9. 40	61 ·8	63 ·5
4. 20	42. 10	1. 45	·1053	4. 32	·00740	21. 40	58 ·5	60 ·5
5. 0	42. 30	2. 15	·1059	5. 0	·00737			
5. 36	42. 0	3. 40	·1057	6. 5	·00777			
6. 13	42. 50	3. 48	·1058	7. 52	·00798			
9. 24	41. 25	3. 55	·1053	10. 5	·00797			
12. 45	42. 30	4. 15	·1055	14. 0	·00751			
12. 52	43. 55	4. 55	·1051	14. 22	·00770			
13. 25	41. 10	5. 49	·1053	15. 4	·00776			
13. 51	45. 5	6. 20	·1050	18. 2	·00935			

October 29. The Declination and Horizontal Force time-piece stopped.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 31		Oct. 31		Oct. 31				
h m	′ ″	h m		h m		h m	°	°
14. 26	21. 41. 40	7. 25	·1053	20. 25	·01088			
14. 55	43. 35	9. 26	·1054	22. 41	·01168			
15. 30	42. 30	11. 25	·1056	23. 40	·01280			
16. 30	42. 55	12. 42	·1054	23. 59	·01289			
17. 10	42. 0	13. 10	·1056					
17. 50	42. 30	13. 27	·1062					
19. 55	41. 10	13. 51	·1061					
21. 15	42. 25	13. 57	·1055					
22. 40	46. 0	14. 28	·1061					
23. 12	46. 30	14. 46	·1059					
		15. 0	·1054					
		15. 12	·1053					
		15. 32	·1057					
		16. 25	·1059					
		16. 44	·1059					
		17. 0	·1061					
		17. 29	·1061					
		17. 34	·1064					
		18. 14	·1064					
		18. 40	·1066					
		19. 32	·1063					
		20. 30	·1056					
		21. 54	·1052					
		22. 27	·1052					
		22. 37	·1055					
		23. 0	·1052					
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 25	21. 45. 20	0. 58	·1046	0. 42	·01398	1. 40	54 ·0	54 ·8
1. 45	46. 0	2. 0	·1044	2. 27	·01340	3. 40	60 ·0	60 ·0
3. 0	44. 20	3. 26	·1043	3. 41	·01320	9. 40	60 ·5	61 ·5
3. 58	42. 55	3. 40	·1046	7. 26	·01102	22. 39	57 ·0	58 ·0
5. 13	42. 50	3. 58	·1042	9. 9	·01055			
6. 10	41. 0	4. 35	·1047	10. 48	·01021			
7. 3	41. 50	4. 46	·1044	13. 58	·01096			
7. 39	41. 0	5. 0	·1046	20. 40	·01398			
8. 8	41. 25	5. 5	·1045	22. 56	·01477			
8. 33	41. 0	5. 15	·1048		(†)			
8. 42	40. 0	5. 27	·1042					
10. 45	40. 50	5. 47	·1048					
11. 20	40. 50	6. 13	·1046					
11. 30	41. 0	6. 27	·1047					
11. 55	40. 50	6. 38	·1046					
12. 7	41. 45	7. 14	·1050					
12. 41	41. 0	7. 35	·1042					
16. 0	42. 35	8. 54	·1048					
18. 28	41. 50	9. 3	·1046					
19. 40	41. 30	9. 13	·1048					
21. 20:	40. 45	9. 24	·1046					
22. 39	42. 55	9. 58	·1048					
	(†)	11. 13	·1046					
		11. 27	·1050					
		11. 33	·1048					
		11. 56	·1046					
		12. 5	·1049					
		12. 42	·1047					
		13. 8	·1048					
		13. 20	·1051					
		13. 29	·1049					
Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Nov. 1						
h m	′ ″	h m		h m		h m	°	°
		13. 45	·1052					
		13. 58	·1049					
		18. 15	·1059					
		19. 57:	·1060					
		20. 40	·1057					
		22. 30	·1048					
			(†)					
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
8. 45	21. 39. 50*	8. 45	·1046*	0. 0	·01481	8. 45	54 ·0	61 ·0
21. 40	41. 12*	21. 40	·1049*	2. 25	·01422	12. 40	57 ·5	59 ·3
				3. 44	·01375	13. 40	57 ·5	58 ·1
				4. 48	·01305	14. 40	57 ·0	58 ·3
				5. 18	·01292	15. 40	56 ·5	58 ·0
				7. 22	·01060	16. 40	56 ·3	57 ·6
				9. 25	·00958	17. 40	56 ·0	57 ·4
				10. 18	·00917	18. 40	55 ·7	57 ·3
				16. 50	·01410	19. 40	56 ·0	57 ·3
				19. 7	·01538	20. 40	55 ·9	57 ·4
				20. 28	·01537	21. 40	56 ·1	57 ·3
				23. 54	·01580	22. 40	56 ·0	56 ·9
						23. 40	56 ·2	57 ·2
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
1. 40	21. 44. 54*	1. 40	·1038*	1. 40	·01456*	0. 40	56 ·4	57 ·4
3. 40	44. 9*	3. 40	·1043*	3. 40	·01488*	1. 40	56 ·3	57 ·0
	(†)		(†)	9. 40	·01557*	2. 40	56 ·2	56 ·5
4. 30	42. 25	4. 40	·1046	21. 40	·01550*	3. 40	57 ·0	56 ·4
5. 48	42. 0	5. 4	·1048			4. 40	57 ·0	56 ·3
6. 12	41. 40	5. 25	·1046			5. 40	57 ·2	56 ·8
6. 54	42. 0	5. 37	·1044			6. 40	57 ·8	57 ·3
7. 15	41. 50	5. 53	·1048			7. 40	58 ·0	57 ·3
8. 20	43. 10	6. 2	·1040			8. 40	58 ·5	58 ·0
8. 38	38. 25	6. 46	·1041			9. 40	58 ·5	58 ·0
8. 47	40. 50	7. 40	·1036			10. 40	57 ·8	57 ·5
9. 7	39. 45	7. 57	·1032			11. 40	57 ·4	57 ·0
9. 15	41. 0	8. 16	·1034			21. 40	53 ·5	53 ·0
9. 35	33. 20	8. 26	·1028					
10. 4	35. 0	8. 34	·1027					
10. 10	36. 50	8. 42	·1033					
10. 54	38. 30	8. 58	·1026					
11. 8	38. 30	9. 10	·1036					
11. 27	39. 10	9. 23	·1022					
11. 50	39. 50	9. 52	·1043					
12. 41	38. 30	10. 4	·1050					
13. 0	38. 5	10. 26	·1044					
13. 33	40. 45	10. 58	·1040					
13. 40	43. 30	11. 17	·1042					
14. 0	43. 0	11. 30	·1041					
14. 35	39. 0	12. 2	·1045					
15. 30	39. 55	12. 20	·1042					
16. 13	39. 10	12. 54	·1043					
17. 40	40. 35	13. 36	·1045					
18. 20	40. 40	13. 50	·1050					
18. 28	41. 0	14. 3	·1052					
21. 25	40. 45	14. 20	·1052					
22. 33	40. 55	14. 40	·1048					
23. 25	42. 55	15. 28	·1048					
23. 59	43. 5:	15. 44	·1051					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
h m	° ′ ″	Nov. 3 h m		h m		h m	°	°
		15. 51	·1049					
		17. 27	·1052					
		17. 54	·1055					
		18. 14	·1054					
		18. 30	·1056					
		18. 45	·1056					
		19. 32	·1058					
		21. 24	·1058					
		21. 49	·1055					
		23. 0	·1054					
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 0	21. 43. 50	0. 40	·1053	0. 13	·00877	1. 40	52 ·5	53 ·0
0. 58	44. 55	1. 55	·1046	1. 15	·00923	3. 40	54 ·0	55 ·0
1. 20	43. 50	2. 25	·1050	2. 0	·00917	9. 40	55 ·0	57 ·0
2. 30	44. 0	3. 28	·1052	3. 17	·00840	21. 40	51 ·5	53 ·5
2. 38	43. 0	4. 29	·1048	4. 14	·00741			
3. 20	42. 45	5. 30	·1051	4. 52	·00678			
4. 15	41. 30	5. 40	·1051	6. 18	·00680			
5. 10	41. 20	6. 0	·1053	13. 50	·00643			
6. 25	41. 0	6. 40	·1052	15. 44	·00708			
7. 0	41. 0	7. 14	·1054	17. 16	·00775			
7. 30	38. 30	7. 24	·1050	19. 43	·00838			
7. 41	40. 0	7. 33	·1048	22. 5	·01077			
8. 54	38. 50	8. 15	·1056	23. 22	·01096			
9. 34	39. 40	8. 33	·1052					
9. 57	37. 45	8. 55	·1053					
10. 30	38. 25	9. 14	·1055					
11. 4	38. 0	9. 44	·1052					
11. 13	38. 40	10. 2	·1052					
11. 25	38. 15	10. 15	·1057					
12. 30	41. 0	11. 5	·1054					
13. 16	41. 0	11. 26	·1055					
	(†)	11. 30	·1060					
16. 56	44. 20	11. 54	·1054					
17. 0	43. 5	12. 30	·1056					
17. 2	41. 0	13. 7	·1060					
17. 7	37. 25	13. 29	·1061					
17. 46	39. 5	13. 32	·1059					
19. 20	40. 20	13. 48	·1063					
19. 40	40. 0		(†)					
21. 40	41. 0	21. 40	·1070*					
22. 10	40. 35							
23. 8	43. 50							
23. 25	43. 0							
23. 38	43. 10							
23. 42	43. 55							
23. 59	44. 0							
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 0	21. 44. 0	0. 15	·1058	0. 0	·01100	1. 40	52 ·0	53 ·0
0. 25	44. 15	0. 37	·1060	1. 5	·01109	3. 40	54 ·0	55 ·0
0. 39	45. 45	0. 45	·1056	2. 30	·01077	9. 40	52 ·0	54 ·5
1. 12	46. 40	1. 2	·1057	4. 8	·00994	21. 40	43 ·0	46 ·0
1. 35	44. 20	1. 15	·1053	5. 42	·00818			
2. 12	46. 30	1. 32	·1055	6. 55	·00737			
2. 20	46. 15	1. 53	·1052	7. 44	·00728			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	Readings of Thermometers. of V. F. Magnet.
Nov. 5		Nov. 5		Nov. 5				
h m	° ′ ″	h m		h m		h m	°	°
2. 34	21. 47. 0	2. 4	·1054	8. 58	·00741			
2. 51	46. 30	2. 16	·1052	10. 38	·00818			
3. 3	46. 45	2. 42	·1049	14. 39	·01234			
3. 21	45. 0	2. 53	·1052	16. 2	·01257			
3. 41	46. 50	3. 1	·1048	18. 7	·01286			
4. 6	47. 0	3. 10	·1050		·01141			
4. 25	48. 45	3. 55	·1028	19. 8	·01257			
4. 58	45. 30	4. 2	·1052	19. 52	·01316			
5. 11	46. 0	4. 30	·1026	22. 5	·01342			
6. 6	41. 40	4. 55	·1030	22. 10	·01316			
7. 13	41. 0	5. 1	·1054	23. 2	·01341			
8. 33	41. 5	5. 46	·1046	23. 36	·01347			
9. 15	38. 35	6. 45	·1048					
9. 45	41. 20	7. 2	·1048					
10. 6	41. 35	7. 50	·1041					
10. 16	37. 0	8. 20	·1048					
10. 57	41. 50	8. 48	·1051					
11. 5	41. 0	9. 3	·1048					
12. 0	41. 35	9. 26	·1048					
13. 13	42. 45	10. 2	·1050					
14. 5	41. 50	10. 15	·1065					
15. 4	44. 0	10. 28	·1057					
16. 8	42. 45	10. 42	·1052					
16. 29	43. 0	10. 56	·1052					
17. 6	41. 5	11. 5	·1061					
19. 0	42. 30	11. 25	·1056					
21. 3	42. 0	12. 0	·1056					
21. 17	41. 0	13. 34	·1060					
22. 30	42. 55	14. 18	·1060					
23. 20	42. 55	15. 2	·1065					
23. 59	43. 50	15. 25	·1070					
		16. 0	·1071					
		16. 45	·1076					
		18. 0	·1078					
		18. 40	·1080					
		19. 14	·1076					
		19. 54	·1078					
		20. 22	·1071					
		21. 0	·1070					
		21. 17	·1066					
		22. 24	·1064					
		22. 32	·1062					
		23. 5	·1061					
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
0. 0	21. 43. 50	0. 40	·1060	0. 0	·01318	1. 40	46 ·0	48 ·0
0. 53	44. 55	1. 9	·1060	1. 5	·01268	3. 40	49 ·0	51 ·0
2. 12	43. 50	1. 24	·1056	1. 42	·01217	9. 40	51 ·5	52 ·8
3. 45	41. 20	2. 42	·1054	2. 32	·01098	21. 40	47 ·0	48 ·5
5. 40	41. 0	3. 28	·1052	3. 20	·00940			
7. 30	40. 5	3. 49	·1054	5. 15	·00732			
10. 25	41. 45	4. 15	·1051	5. 20	·00746			
14. 0	41. 30	5. 0	·1054	6. 3	·00756			
14. 34	42. 0	5. 7	·1053	9. 12	·00695			
15. 5	40. 45	5. 55	·1059	10. 30	·00701			
15. 20	42. 0		(†)	14. 28	·00896			
16. 3	41. 55	9. 0	·1064	16. 35	·01041			
16. 24	40. 50	9. 56	·1063	19. 30	·01210			

November 2. The Photographic Sheet for the Declination and Horizontal Force was not good, and the trace was only partial.

November 3. Vertical Force. The Photographic Trace was indistinct.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Nov. 6	
h m	° ′
16. 52	21. 41. 55
17. 37	40. 10
18. 41	40. 45
19. 0	40. 0
19. 34	41. 0
20. 0	40. 50
	(†)
21. 40	40. 59*
Nov. 7	
0. 30	21. 44. 0
1. 1	43. 10
1. 27	43. 25
2. 0	43. 55
2. 34	46. 35
3. 15	43. 35
3. 29	43. 50
3. 56	39. 0
4. 4	38. 45
4. 42	45. 0
	***
6. 35	41. 40
7. 0	35. 0
7. 13	38. 0
7. 34	47. 45
7. 45	35. 50
8. 7	38. 20
8. 31	38. 0
9. 0	39. 50
9. 30	33. 50
10. 17	37. 55
10. 36	38. 50
10. 55	38. 0
11. 8	38. 40
12. 2	35. 55
12. 26	37. 50
12. 53	37. 40
13. 30	38. 50
14. 15	42. 55
16. 40	42. 0
17. 35	41. 45
19. 22	45. 55
19. 34	44. 0
21. 13	43. 0
22. 12	44. 30
22. 25	46. 15
22. 30	45. 0
23. 11	45. 0
23. 27	46. 0
23. 59	46. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Nov. 6	
h m	
10. 24	·1065
13. 24	·1067
14. 40	·1071
15. 4	·1074
15. 52	·1073
16. 18	·1078
18. 4	·1075
18. 16	·1074
18. 46	·1075
19. 5	·1074
19. 29	·1076
19. 57	·1067
20. 2	·1065
20. 14	·1065
	(†)
21. 40	·1066*
Nov. 7	
	(†)
1. 40	·1054*
2. 0	·1055
2. 16	·1054
2. 55	·1052
3. 24	·1048
3. 40	·1040
4. 40	·1050
4. 48	·1044
6. 0	·1049
6. 20	·1051
6. 46	·1044
6. 59	·1057
7. 3	·1058
7. 28	·1049
7. 44	·1050
7. 57	·1048
8. 11	·1041
8. 54	·1046
9. 2	·1044
9. 35	·1053
10. 5	·1048
10. 40	·1050
10. 54	·1059
11. 0	·1060
11. 10	·1057
11. 25	·1057
11. 57	·1050
12. 20	·1053
12. 41	·1052
12. 45	·1049
13. 12	·1054
13. 25	·1050
13. 34	·1051
16. 25	·1058
17. 19	·1065
17. 40	·1064
18. 27	·1067
19. [illegible]	·1067
19. [illegible]	·1072
21. 0	·1071

Göttingen Mean Solar Time.	Vertical Force, in parts of the whole V. F. uncorrected for Temperature.
Nov. 6	
h m	
21. 54	·01276
23. 59	·01256
Nov. 7	
0. 11	·01220
1. 45	·01155
3. 10	·01020
4. 30	·00868
5. 6	·00743 } ·00797
10. 4	·00816
11. 0	·00800
11. 40	·00716
13. 30	·00720
16. 15	·00789
22. 27	·01085
23. 13	·01138
23. 59	·01166

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
h m	°	°
Nov. 7		
1. 40	49 ·0	50 ·3
3. 40	51 ·0	52 ·0
9. 40	54 ·6	55 ·5
21. 40	50 ·5	52 ·0

Göttingen Mean Solar Time.	Western Declination.
Nov. 8	
h m	° ′
0. 0	21. 46. 30
0. 33	48. 0
1. 5	48. 0
1. 24	40. 0
1. 54	47. 5
2. 15	45. 50
2. 39	46. 0
3. 5	45. 0
3. 36	44. 0
4. 10	44. 50
4. 45	41. 40
4. 55	48. 0
5. 11	42. 50
6. 3	41. 55
6. 13	40. 45
6. 24	41. 0
6. 34	39. 45
6. 38	39. 30
7. 0	38. 0
7. 16	39. 0
7. 26	38. 50
7. 32	40. 30
8. 2	40. 10
8. 30	37. 35
8. 50	36. 40
9. 7	38. 45
9. 48	37. 0
10. 6	38. 35
11. 6	39. 0
12. 0	38. 50
12. 24	39. 55
13. 40	42. 0
16. 0	41. 10
16. 10	41. 55
17. 7	40. 40
17. 30	41. 40
17. 40	40. 35
18. 6	40. 35
18. 40	41. 30
20. 5	40. 0
21. 11	40. 50
21. 40	38. 30
23. 12	42. 30
23. 55	43. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Nov. 7	
h m	
21. 46	·1064
22. 0	·1061
22. 12	·1062
22. 25	·1054
22. 36	·1053
23. 15	·1055
23. 42	·1046
23. 59	·1047
Nov. 8	
0. 0	·1047
0. 43	·1052
2. 12	·1042
2. 40	·1048
2. 55	·1044
3. 11	·1049
3. 31	·1046
4. 4	·1053
4. 16	·1049
4. 30	·1048
4. 50	·1051
5. 20	·1054
5. 27	·1051
5. 35	·1050
6. 11	·1045
6. 20	·1047
6. 28	·1041
6. 41	·1043
6. 56	·1043
7. 4	·1051
7. 17	·1048
7. 30	·1053
8. 30	·1060
8. 53	·1059
9. 15	·1063
9. 30	·1060
10. 4	·1061
10. 18	·1060
10. 26	·1061
10. 37	·1058
10. 53	·1060
11. 10	·1058
11. 27	·1064
11. 31	·1062
11. 50	·1064
12. 43	·1061
12. 57	·1062
13. 13	·1061
18. 14	·1073
18. 28	·1071
18. 50	·1076
19. 32	·1075
19. 55	·1070
20. 33	·1069
21. 3	·1071
21. 15	·1068
21. 50	·1067
22. 20	·1062

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Nov. 8	
h m	
1. 13	·01171
1. 59	·01181
3. 10	·01158
5. 52	·01045
7. 39	·01083
9. 50	·01018
12. 5	·01038
14. 28	·01119
20. 15	·01498
21. 4	·01479
23. 59	·01443

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet
h m	°	°
Nov. 8		
1. 40	51 ·5	52 ·0
3. 40	52 ·2	52 ·7
9. 40	51 ·8	52 ·0
23. 40	45 ·0	46 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Nov. 9	
	(†)
1. 27	21. 44. 25
1. 50	44. 45
4. 27	44. 35
6. 40	40. 35
8. 15	40. 50
8. 34	40. 0
8. 49	40. 30
14. 3	40. 0
16. 16	40. 45
19. 3	39. 40
21. 40	38. 20
23. 27	41. 0
23. 59	41. 0
Nov. 10	
0. 0	21. 41. 0
1. 12	44. 50
2. 3	45. 0
3. 34	42. 15
6. 20	41. 10
7. 11	42. 30
7. 28	43. 35
	***
8. 25	40. 25
8. 56	43. 35
9. 25	40. 0
9. 45	41. 0
10. 16	39. 55
10. 40	38. 0
11. 30	38. 30
11. 55	41. 0
12. 6	40. 55
12. 33	36. 30
12. 45	38. 40
13. 12	41. 0
14. 10	42. 15
14. 15	41. 20
14. 31	42. 40
15. 14	41. 0
16. 3	43. 45
16. 32	42. 55
17. 25	45. 0
17. 54	42. 35
18. 50	42. 45
20. 30	40. 50
21. 3	42. 0
21. 45	40. 50
22. 31	41. 50
22. 45	41. 0
23. 59	43. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Nov. 8	
h m	
22. 49	·1064
23. 0	·1068
23. 38	·1066
Nov. 9	
	(†)
1. 2	·1064
1. 45	·1064
	***
6. 50	·1069
12. 15	·1067
12. 34	·1060
14. 30	·1057
15. 28	·1060
19. 20	·1058
21. 30	·1055
22. 30	·1043
23. 45	·1039
23. 59	·1042
Nov. 10	
0. 0	·1042
1. 45	·1046
1. 55	·1051
2. 40	·1047
4. 0	·1048
4. 16	·1047
4. 50	·1050
5. 1	·1048
5. 15	·1051
5. 40	·1052
6. 18	·1056
6. 31	·1052
6. 54	·1054
	***
8. 15	·1033
8. 40	·1040
9. 2	·1033
9. 17	·1040
10. 25	·1042
10. 34	·1049
10. 40	·1042
10. 50	·1048
11. 0	·1038
11. 15	·1047
11. 24	·1042
11. 39	·1049
12. 2	·1052
12. 34	·1047
13. 0	·1053
13. 16	·1051
14. 30	·1056
14. 34	·1053
14. 50	·1059
16. 5	·1060
17. 0	·1070
17. 11	·1064
18. 1	·1072

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Nov. 9	
h m	
	(†)
3. 24	·01390
6. 10	·01281
10. 25	·01038
11. 30	·00997
14. 45	·01061
18. 17	·00915
20. 58	·00859
23. 28	·00929
23. 59	·00980
Nov. 10	
1. 10	·00788
3. 25	·00834
6. 48	·00803
7. 30	·00825
7. 37	·00858
11. 0	·01038
11. 32	·01086
12. 22	·01137
14. 36	·01323
16. 18	·01495
16. 43	·01477
18. 10	·01441
21. 6	·01413
22. 32	·01392
23. 59	·01410

Göttingen Mean Solar Time.	Readings of Thermometers		
		of H. F. Magnet.	of V. F. Magnet.
h m		°	°
Nov. 9			
7. 20	48 ·0	48 ·8	
12. 40	50 ·0	51 ·7	
13. 40	50 ·5	52 ·0	
14. 40	51 ·0	52 ·5	
15. 40	51 ·0	52 ·4	
16. 40	51 ·6	53 ·0	
17. 40	52 ·2	53 ·5	
18. 40	52 ·0	53 ·0	
19. 40	52 ·8	53 ·6	
20. 40	52 ·4	53 ·3	
21. 40	51 ·2	52 ·4	
22. 40	52 ·4	52 ·5	
23. 40	52 ·8	53 ·0	
Nov. 10			
0. 40	53 ·0	53 ·0	
1. 40	53 ·3	53 ·0	
2. 40	53 ·7	53 ·3	
3. 40	54 ·1	54 ·0	
4. 40	54 ·8	54 ·7	
5. 40	55 ·1	55 ·0	
6. 40	55 ·1	55 ·0	
7. 40	55 ·0	55 ·0	
8. 40	55 ·0	54 ·5	
9. 40	55 ·0	54 ·2	
10. 40	54 ·6	54 ·0	
11. 40	54 ·5	53 ·5	
21. 40	45 ·8	47 ·3	

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Nov.11	
0. 0	21. 43. 15
0. 25	43. 0
1. 6	46. 0
1. 21	43. 50
1. 35	45. 0
2. 10	44. 0
2. 26	44. 55
2. 50	44. 0
3. 0	44. 55
3. 25	44. 50
3. 35	43. 30
3. 50	43. 50
4. 41	42. 0
5. 12	43. 0
5. 30	42. 0
5. 35	42. 25
5. 46	41. 45
6. 6	41. 55
6. 30	40. 40
6. 57	41. 55
7. 30	41. 0
7. 41	41. 50
8. 25	40. 0
8. 33	36. 20
8. 55	40. 20
9. 9	41. 0
9. 30	35. 30
9. 35	36. 35
10. 11	35. 0
10. 40	37. 55
11. 6	39. 30
13. 3	41. 0
13. 26	38. 10
13. 31	38. 40
13. 39	36. 30
13. 55	39. 50
14. 10	38. 55
14. 30	41. 0
14. 57	42. 35
15. 50	40. 50
17. 0	42. 0
18. 50	41. 0
19. 33	41. 40
19. 55	42. 30
21. 3	40. 0
21. 20	41. 0
21. 50	40. 55

Göttingen Mean Solar Time.	Horizontal Force in part of the whole H. F. uncorrected for Temperature.
Nov. 10	
h m	
18. 18	·1071
18. 50	·1077
19. 27	·1073
19. 50	·1078
	***
21. 0	·1069
21. 40	·1070
23. 25	·1058
23. 59	·1057
Nov. 11	
0. 0	·1057
1. 10	·1065
1. 23	·1058
1. 42	·1064
2. 2	·1060
3. 4	·1070
3. 28	·1070
3. 36	·1065
4. 22	·1059
	***
6. 40	·1067
7. 10	·1065
7. 35	·1066
7. 42	·1069
7. 55	·1065
8. 20	·1064
8. 42	·1093
9. 0	·1076
9. 18	·1058
9. 40	·1066
9. 55	·1062
10. 33	·1063
10. 41	·1062
10. 58	·1066
11. 18	·1066
11. 34	·1072
11. 49	·1067
12. 25	·1070
12. 55	·1066
13. 2	·1070
13. 20	·1067
13. 30	·1068
13. 34	·1065
13. 55	·1091
14. 2	·1084
14. 25	·1076
14. 57	·1072
16. 8	·1077
16. 58	·1075
18. 5	·1076
18. 40	·1073
19. 24	·1074
20. 0	·1072
21. 0	·1076
22. 42	·1064
23. 59	·1060

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Nov.11	
h m	
0. 26	·01418
1. 6	·01450
2. 18	·01417
3. 15	·01381
4. 20	·01330
5. 9	·01302
7. 55	·01128
8. 43	·01098
9. 18	·01057
13. 47	·01140
14. 8	·01138
17. 50	·01275
20. 54	·01319
22. 8	·01341
23. 47	·01343

Göttingen Mean Solar Time.	Readings of Thermometers		
		of H. F. Magnet.	of V. F. Magnet.
h m		°	°
Nov.11			
1. 40	46 ·3	47 ·3	
3. 40	47 ·3	48 ·0	
9. 40	48 ·2	49 ·0	
21. 40	45 ·5	47 ·0	

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 11								
h m	′ ″	h m		h m		h m	°	°
22. 6	21. 42. 50							
22. 55	42. 20 †							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
c. 0	21. 44. 35	c. 0	·1060	c. 0	·01342	1. 40	47 ·8	48 ·2
0. 58	45. 0		***	1. 7	·01316	3. 40	50 ·0	50 ·0
1. 58	43. 40	3. 50	·1054	2. 15	·01227	9. 40	50 ·0	50 ·8
5. 49	41. 5	5. 15	·1056	4. 0	·01043	21. 40	46 ·0	47 ·0
6. 5	38. 40	5. 27	·1054	6. 10	·00791			
6. 30	40. 30	5. 43	·1056	7. 8	·00699			
6. 41	39. 50	5. 58	·1050	7. 35	·00698			
7. 10	30. 0	6. 27	·1055	8. 40	·00646			
7. 36	34. 0	6. 42	·1049	10. 15	·00639			
7. 58	37. 40	7. 2	·1047	19. 38	·01037			
8. 33	39. 50	7. 24	·1055	22. 11	·01148			
9. 27	39. 50	7. 30	·1048	23. 59	·01183			
9. 52	40. 45	8. 25	·1054					
10. 34	40. 10	9. 10	·1051					
10. 42	39. 10	9. 24	·1055					
11. 3	41. 0	9. 58	·1057					
11. 15	40. 40	10. 6	·1056					
11. 36	41. 45	10. 25	·1060					
12. 0	40. 10	10. 34	·1058					
12. 20	41. 0	11. 0	·1072					
12. 46	40. 40	11. 10	·1063					
13. 15	41. 10	11. 26	·1072					
14. 58	41. 40	11. 38	·1069					
15. 40	42. 0	11. 54	·1064					
16. 20	41. 45	12. 30	·1061					
16. 50	42. 0	14. 14	·1066					
19. 35	41. 40	14. 30	·1065					
20. 30	41. 30	15. 55	·1069					
22. 35	40. 0	17. 15	·1073					
23. 59	41. 55	20. 46	·1073					
		21. 32	·1071					
		22. 55	·1059					
		23. 59	·1054					
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 0	21. 41. 55	0. 0	·1054	0. 30	·01166	1. 40	48 ·0	49 ·5
2. 30	43. 0	1. 50	·1052	1. 50	·01098	3. 40	50 ·1	50 ·8
4. 27	41. 40	3. 0	·1053	2. 51	·01003	9. 40	51 ·0	52 ·0
6. 5	40. 55	4. 32	·1048	4. 3	·00844	21. 40	48 ·0	50 ·0
6. 25	40. 0	5. 40	·1055	5. 40	·00623			
7. 0	39. 55	6. 12	·1054	10. 10	·00613			
7. 20	35. 0	6. 16	·1051	16. 48	·00620			
7. 28	37. 0	6. 35	·1044	21. 28	·00638			
7. 59	40. 35	7. 2	·1052	23. 59	·00748			
8. 15	39. 10 ***	7. 16	·1049					
		7. 28	·1054					
10. 6	39. 0	8. 24	·1049					
14. 40 :	41. 40	9. 0	·1048					
17. 37	41. 20	9. 33	·1052					
21. 45	40. 10	16. 35	·1054					
23. 20	43. 0	20. 31	·1066					
23. 59	42. 50	21. 50	·1055					
		22. 4	·1060					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	′ ″	h m		h m		h m	°	°
		Nov. 13						
		23. 25	·1058					
		23. 49	·1054					
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
c. 0	21. 42. 50	0. 54	·1060	c. 45	·00777	1. 40	49 ·0	50 ·0
1. 0	44. 0	1. 15	·1050	1. 48	·00763	3. 40	50 ·0	51 ·0
3. 40 :	40. 55	4. 40	·1051	3. 15	·00657	9. 40	49 ·0	49 ·3
6. 34	39. 50	7. 20	·1054	4. 11	·00608	21. 40	42 ·0	43 ·5
7. 12	40. 0	9. 38	·1054		·00675			
7. 30	39. 40	10. 10	·1052	6. 35	·00641			
7. 50	40. 0	13. 25	·1062	8. 3	·00660			
8. 14	39. 5	18. 27	·1075	10. 20	·00776			
8. 54	40. 0 ***	20. 50	·1074	16. 47	·01356			
		21. 51	·1064	17. 25	·01324			
11. 0	40. 20	22. 20	·1069	22. 53	·01374			
15. 15	42. 10	22. 40	·1064	23. 54	·01399			
20. 55 :	41. 0	23. 2	·1067					
21. 25	41. 0	23. 10	·1068					
21. 37	40. 45	23. 30	·1064					
22. 27	43. 0	23. 47	·1065					
22. 51	45. 0							
23. 38	43. 0							
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 40	21. 45. 0		(†)	0. 54	·01378	1. 40	44 ·0	45 ·0
2. 10	43. 10 ***	1. 42	·1088	1. 50	·01341	3. 40	46 ·0	47 ·0
		2. 43	·1084	2. 41	·01261	9. 40	49 ·0	49 ·3
2. 55	42. 15	2. 54	·1081	3. 47	·01100	23. 55	44 ·5	45 ·3
3. 16	41. 10	3. 5	·1084	5. 36	·00755			
3. 31	42. 0	3. 20	·1080	6. 25	·00638			
4. 13	41. 50	3. 43	·1084	6. 50	·00608			
5. 56	42. 50	5. 6	·1075	7. 26	·00617			
6. 13	41. 40	5. 16	·1072	10. 8	·00601			
9. 23	39. 20	6. 56	·1078	11. 52	·00589			
10. 2	38. 0	7. 26	·1081	16. 50	·00581			
10. 32	36. 50	8. 12	·1079	18. 48	·00639			
11. 20	38. 50	8. 34	·1083	20. 30	·00739			
11. 40	36. 50	9. 20	·1081	23. 36	·01025			
12. 12	36. 0	9. 27	·1083					
12. 24	36. 55	10. 4	·1081					
13. 27	37. 30	10. 27	·1094					
13. 42	39. 0	10. 58	·1081					
14. 2	38. 50	11. 25	·1087					
14. 25	40. 30	12. 34	·1082					
15. 6	42. 15	12. 42	·1076					
15. 45	42. 0	14. 1	·1071					
16. 31	43. 55	14. 35	·1079					
16. 55	44. 55	15. 0	·1073					
17. 13	42. 45	15. 28	·1075					
17. 30	43. 30	15. 35	·1079					
17. 55	42. 0	16. 30	·1083					
18. 34	41. 50	17. 10	·1081					
18. 36	42. 5	17. 36	·1083					
18. 46	41. 40	17. 48	·1088 ***					
19. 0	41. 50							
19. 16	42. 55	20. 5	·1101					
19. 34	41. 55	21. 44	·1092					
19. 52	42. 55	21. 58	·1094					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 15		Nov. 15						
h m	° ′ ″	h m		h m		h m	°	°
20. 28	21. 43. 0	22. 45	·1086					
21. 0	41. 50	23. 59	·1084					
21. 20	42. 0							
21. 33	41. 15							
23. 35	45. 0							
23. 59	44. 20							
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
0. 0	21. 44. 20	0. 6	·1085	0. 10	·01019	9. 35	46 ·0	47 ·0
0. 13	44. 50	0. 26	·1088	1. 0	·01088	12. 40	43 ·2	45 ·1
0. 34	46. 20	1. 24	·1085	2. 19	·01139	13. 40	42 ·9	44 ·7
1. 48	44. 5	1. 50	·1083	3. 57	·01143	14. 40	43 ·0	44 ·8
2. 3	44. 50	2. 10	·1089	7. 40	·00998	15. 40	42 ·5	44 ·0
2. 40	44. 0	3. 0	·1080	8. 26	·00990	16. 40	41 ·5	43 ·0
3. 2	43. 0	3. 26	·1078	10. 31	·01027	17. 40	41 ·0	42 ·5
4. 39	42. 15	4. 22	·1081	15. 47	·01421	18. 40	41 ·0	43 ·0
4. 50	43. 0	4. 44	·1084	15. 55	·01402	19. 40	40 ·5	42 ·6
5. 7	41. 40	5. 0	·1081	20. 36	·01367	20. 40	40 ·0	42 ·5
5. 33	42. 0	6. 2	·1086	21. 41	·01385	21. 40	41 ·2	42 ·5
6. 0	41. 50	6. 13	·1082	23. 52	·01399	22. 40	41 ·4	42 ·6
6. 12	39. 30	7. 12	·1087			23. 40	42 ·0	43 ·1
7. 0	39. 0	8. 0	·1082					
7. 40	41. 50	8. 59	·1089					
7. 57	41. 0	9. 23	·1084					
10. 12	40. 0	9. 45	·1087					
10. 26	39. 0	10. 28	·1084					
10. 39	31. 0	10. 54	·1089					
11. 28	33. 25	11. 15	·1078					
11. 40	37. 0	11. 27	·1081					
12. 23	36. 55	11. 42	·1074					
12. 30	38. 50	12. 4	·1083					
12. 45	48. 0	12. 15	·1081					
13. 1	39. 55	12. 25	·1086					
13. 12	38. 40	12. 40	·1078					
14. 13	43. 25	13. 27	·1079					
15. 33	42. 50	14. 30	·1086					
15. 43	43. 45	15. 26	·1089					
16. 25	43. 0	15. 44	·1086					
17. 4	43. 50	16. 30	·1090					
17. 28	42. 50	17. 10	·1090					
18. 3	43. 0	17. 35	·1094					
19. 6	41. 50	19. 20	·1100					
20. 15	41. 45	20. 5	·1090					
21. 20	41. 0	21. 20	·1093					
22. 28	41. 55	21. 50	·1093					
22. 45	42. 50	23. 59	·1084					
23. 59	43. 10							
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
0. 0	21. 43. 0	0. 0	·1084	0. 37	·01362	0. 40	43 ·1	44 ·3
0. 40	44. 55	1. 54	·1082	1. 44	·01265	1. 40	44 ·6	45 ·1
0. 55	43. 0	2. 30	·1076	2. 13	·01201	2. 40	46 ·3	46 ·7
1. 43	43. 55	3. 25	·1080	5. 15	·00657	3. 40	47 ·1	48 ·3
2. 11	44. 0	4. 42	·1079	5. 20	·00679	4. 40	48 ·5	48 ·5
2. 42	42. 10	5. 14	·1083	7. 25	·00717	5. 40	49 ·2	49 ·4
4. 34	41. 50	6. 25	·1078	9. 14	·00735	6. 40	49 ·9	49 ·8
5. 0	41. 10	7. 55	·1083	12. 7	·00703	7. 40	51 ·2	51 ·6
5. 45	41. 50	9. 50	·1081	15. 30	·00678	8. 40	51 ·5	51 ·4

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
h m	° ′ ″	h m		h m		h m	°	°
7. 7	21. 40. 5	10. 20	·1077	21. 5	·00798	9. 40	51 ·8	52 ·0
10. 44	38. 55	10. 30	·1079	23. 12	·00862	10. 40	51 ·5	51 ·6
11. 4	37. 50	11. 28	·1074	23. 59	·00873	11. 40	51 ·3	51 ·5
12. 11	39. 0	12. 8	·1076			21. 40	48 ·7	49 ·3
12. 24	40. 50	12. 24	·1090					
12. 40	38. 30	12. 48	·1076					
14. 0	39. 0	15. 40	·1085					
	***	16. 42	·1090					
14. 44	40. 20	17. 0	·1090					
14. 57	41. 55	17. 20	·1087					
15. 4	41. 0	18. 42	·1093					
15. 57	41. 50	20. 14	·1096					
16. 15	41. 0	20. 58	·1100					
17. 40	43. 55	21. 30	·1095					
18. 30	40. 50	22. 27	·1090					
19. 20	40. 45	23. 0	·1085					
21. 16	41. 40	23. 59	·1082					
21. 55	41. 50							
23. 25	42. 30							
23. 30	43. 30							
23. 59	42. 25							
Nov. 18		Nov. 18		Nov. 18		Nov. 18		
0. 0	21. 42. 25	0. 32	·1082	0. 14	·00861	1. 40	51 ·1	51 ·7
0. 33	42. 45	1. 0	·1075	1. 38	·00819	3. 40	53 ·2	52 ·6
0. 45	44. 0	2. 50	·1078	2. 30	·00742	9. 40	54 ·0	53 ·7
1. 43	42. 50	3. 32	·1066		·00825	21. 40	49 ·0	51 ·0
3. 27	43. 0	3. 58	·1076	4. 7	·00859			
3. 50	39. 50	4. 57	·1075	5. 41	·00839			
4. 30	44. 0	6. 0	·1086		·01041			
4. 54	44. 40	6. 27	·1084	6. 50	·00958			
5. 15	42. 50	7. 56	·1089	9. 20	·00952			
5. 31	42. 50	9. 0	·1087	13. 26	·00961			
5. 55	41. 0	9. 22	·1079	18. 41	·01224			
6. 50	40. 50	9. 45	·1086	23. 18	·01559			
7. 8	41. 0	10. 7	·1089	23. 59	·01615			
7. 43	40. 0	10. 30	·1085					
9. 0	40. 50	11. 2	·1093					
11. 2	37. 45	11. 42	·1086					
11. 15	38. 50	11. 54	·1096					
12. 40	39. 50	12. 20	·1095					
14. 6	35. 50		***					
14. 45	39. 30	13. 25	·1104					
15. 26	37. 55	13. 32	·1102					
15. 42	39. 35	13. 43	·1097					
16. 2	38. 45	13. 54	·1101					
16. 26	40. 45	13. 57	·1101					
	***	14. 24	·1089					
17. 15	41. 0	20. 0	·1104					
	***		***					
17. 54	42. 0	21. 40	·1103					
18. 41	41. 0	23. 15	·1090					
19. 10	42. 20	23. 59	·1070					
19. 42	41. 50							
20. 5	42. 20							
	***							
22. 8	41. 50							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 18								
h m	° ′ ″	h m		h m		h m	°	°
23. 37	21. 46. 50							
23. 46	44. 5							
23. 59	46. 0							
Nov. 19		Nov. 19		Nov. 19		Nov. 19		
0. 0	21. 46. 0	0. 0	·1070	0. 2	·01603	1. 40	50 ·3	50 ·8
0. 55	45. 45	1. 34	·1084	0. 44	·01625	3. 40	51 ·0	52 ·0
	***	1. 58	·1079	1. 56	·01610	9. 40	54 ·6	55 ·0
1. 56	47. 0	2. 40	·1084	2. 31	·01479	21. 40	50 ·7	51 ·4
	***	2. 48	·1079	3. 22	·01518			
3. 36	40. 50	3. 42	·1085	4. 35	·01378			
4. 25	43. 40	3. 58	·1089	5. 54	·01198			
5. 31	43. 0	4. 27	·1089	6. 10	·01188			
5. 58	33. 0	4. 50	·1082	7. 27	·01040			
6. 6	37. 5	5. 30	·1086	8. 50	·00967			
6. 22	36. 40	5. 55	·1084	9. 45	·00939			
6. 54	40. 55	6. 10	·1087	10. 21	·00956			
7. 58	41. 0	6. 24	·1084	11. 10	·00903			
8. 22	39. 55	7. 10	·1091	14. 6	·00985			
8. 41	40. 50	7. 26	·1086	16. 58	·01123			
9. 25	38. 0	8. 20	·1091	17. 20	·01198			
9. 48	30. 0		***	22. 13	·01264			
10. 24	35. 0	9. 50	·1084	23. 15	·01276			
10. 33	39. 10	10. 40	·1086	23. 59	·01238			
10. 51	36. 5	11. 2	·1111					
11. 0	36. 50	11. 24	·1093					
11. 24	33. 0	11. 28	·1096					
11. 41	37. 0	11. 52	·1082					
13. 15	43. 20	12. 58	·1083					
14. 6	39. 55	13. 28	·1095					
14. 41	42. 20	14. 25	·1089					
15. 37	39. 30		***					
15. 54	40. 55	19. 0	·1095					
16. 8	39. 50	19. 20	·1099					
16. 30	40. 50	20. 17	·1095					
17. 4	41. 30	20. 38	·1098					
17. 24	40. 0		***					
17. 33	41. 5	23. 0	·1085					
18. 6	41. 50		***					
20. 15	39. 50	23. 59	·1084					
20. 34	40. 50							
23. 0	39. 40							
23. 45	42. 45							
23. 59	42. 55							
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
0. 0	21. 42. 55	0. 0	·1084	0. 14	·01258	1. 40	53 ·2	53 ·8
0. 57	44. 40	1. 20	·1077	1. 16	·01184	3. 40	53 ·0	54 ·0
1. 30	43. 50	1. 51	·1062	2. 28	·01101	9. 40	56 ·0	55 ·0
1. 51	43. 0	2. 5	·1061	3. 56	·00943	21. 40	52 ·0	52 ·4
2. 5	39. 10	2. 40	·1074	4. 31	·00875			
2. 37	41. 50	3. 30	·1077		·00901			
3. 27	42. 50		***	6. 22	·00897			
3. 40	45. 0	4. 45	·1066	11. 8	·00830			
4. 0	45. 35	5. 0	·1073	11. 37	·00838			
4. 51	42. 50	6. 24	·1081	13. 56	·00860			
5. 5	43. 50	6. 32	·1077	19. 17	·01141			
5. 24	42. 25	6. 59	·1083	22. 25	·01274			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 20		Nov. 20		Nov. 20				
h m	° ′ ″	h m		h m		h m	°	°
5. 36	21. 42. 55	7. 15	·1077	23. 40	·01306			
5. 58	41. 10	7. 42	·1087					
6. 11	41. 45	8. 5	·1081					
6. 24	40. 30	9. 9	·1084					
6. 27	41. 0	9. 40	·1080					
6. 35	37. 40	10. 2	·1083					
6. 37	37. 55	11. 0	·1077					
6. 45	36. 45	11. 14	·1091					
7. 2	37. 50	11. 20	·1087					
7. 20	34. 0	11. 40	·1086					
7. 32	36. 50	11. 54	·1105					
7. 45	37. 5	12. 15	·1106					
7. 56	39. 0	12. 28	·1097					
8. 4	39. 55	12. 44	·1087					
8. 24	38. 30	13. 3	·1087					
8. 56	40. 5	13. 20	·1081					
10. 4	38. 0	13. 35	·1083					
10. 35	38. 5	13. 59	·1079					
10. 55	39. 0	14. 25	·1085					
11. 26	31. 40	15. 4	·1082					
11. 41	34. 0	15. 27	·1087					
11. 57	37. 45		***					
12. 9	36. 0	18. 0	·1091					
12. 33	37. 50	18. 40	·1094					
12. 56	36. 0	19. 20	·1091					
13. 5	38. 50	19. 49	·1096					
13. 25	37. 40	21. 30	·1086					
13. 45	39. 0	21. 56	·1087					
14. 42	39. 5	22. 30	·1084					
14. 57	40. 30	23. 59	·1082					
15. 25	40. 0							
16. 5	38. 45							
17. 13	40. 55							
18. 25	40. 25							
18. 30	41. 25							
18. 55	39. 50							
19. 15	40. 30							
21. 6	39. 50							
21. 21	40. 50							
21. 55	39. 40							
22. 16	40. 45							
22. 50	41. 0							
23. 7	42. 40							
23. 59	43. 55							
Nov. 21		Nov. 21		Nov. 21		Nov. 21		
0. 0	21. 43. 55	0. 0	·1082	0. 0	·01318	1. 40	53 ·2	54 ·0
0. 20	44. 55	1. 14	·1081	1. 15	·01316	3. 40	55 ·0	55 ·0
0. 32	44. 0	2. 8	·1070	2. 27	·01285	21. 40	53 ·5	54 ·5
1. 10	45. 40	3. 5	·1071	3. 22	·01238			
2. 36	43. 45	3. 35	·1078	5. 39	·01043			
3. 5	42. 0	5. 0	·1079	7. 21	·00863			
3. 39	42. 20	8. 0	·1084		·00922			
5. 7	41. 25	8. 28	·1081	9. 54	·00878			
9. 35	40. 10	8. 44	·1084	10. 7	·00890			
9. 56	36. 0	9. 32	·1078	14. 8	·00886			
10. 6	36. 0	9. 43	·1083	14. 48	·00879			
10. 30	31. 50	9. 58	·1066	16. 6	·00923			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 21		Nov. 21		Nov. 21				
h m	° ′ ″	h m		h m		h m	°	°
11. 0	21. 37. 10	10. 30	·1073	21. 18	·01055			
11. 10	36. 50	10. 54	·1082	23. 40	·01088			
11. 42	38. 55	11. 24	·1073					
12. 2	38. 15	11. 30	·1078					
13. 40	30. 50	13. 0	·1080					
14. 15	36. 15	13. 55	·1081					
15. 5	39. 45	14. 20	·1084					
16. 5	41. 50	15. 3	·1084					
16. 30	40. 45	16. 0	·1081					
17. 31	40. 50	17. 4	·1087					
22. 0	40. 55	19. 50	·1088					
	(†)	23. 59	·1077					
Nov. 22		Nov. 22		Nov. 22		Nov. 22		
0. 0	21. 43. 0	0. 0	·1077	0. 46	·01098	1. 40	55 ·0	55 ·0
0. 50	43. 45	3. 27	·1078	2. 24	·01048	3. 40	56 ·3	56 ·0
3. 34	42. 0	6. 1	·1085	4. 22	·00900	9. 40	56 ·3	57 ·0
7. 27:	40. 50	8. 40	·1088		·00961	23. 5	54 ·5	56 ·0
9. 0	41. 0	9. 40	·1086	6. 20	·00900			
9. 39	38. 0	10. 2	·1091	8. 24	·00881			
10. 15	39. 45	10. 40	·1089	9. 40	·00898			
10. 31	39. 0	10. 57	·1084	16. 50	·01071			
10. 42	39. 55	11. 4	·1086	21. 10	·01138			
11. 0	38. 50	11. 20	·1083	23. 43	·01150			
11. 12	39. 0	11. 42	·1092					
11. 32	36. 0	12. 35	·1076					
11. 45	36. 40	13. 17	·1081					
12. 26	36. 50	13. 40	·1080					
13. 40	40. 55	14. 4	·1083					
14. 54	42. 0	16. 0	·1089					
18. 3	41. 0	18. 40	·1092					
19. 6	40. 0	19. 56	·1092					
19. 54	41. 20	20. 39	·1095					
22. 0	40. 55	22. 27	·1092					
23. 59	42. 55	22. 55	·1089					
		23. 59	·1086					
Nov. 23		Nov. 23		Nov. 23		Nov. 23		
0. 0	21. 42. 55	0. 0	·1086	0. 0	·01141	10. 0	56 ·3	56 ·5
0. 42	45. 0	1. 46:	·1084	1. 42	·01140	12. 40	56 ·0	56 ·1
1. 0	44. 10	8. 4	·1088	2. 35	·01120	13. 40	56 ·0	56 ·3
3. 5	43. 30	8. 30	·1086	6. 0	·00936	14. 40	56 ·1	56 ·3
5. 40	41. 0	8. 55	·1088	7. 7	·00896	15. 40	56 ·7	56 ·4
8. 24	40. 0	9. 46	·1081	7. 55	·00881	16. 40	57 ·2	57 ·0
8. 36	39. 50	10. 15	·1085		·00948	17. 40	57 ·5	57 ·5
8. 50	40. 45	10. 26	·1082	13. 34	·00908	18. 40	57 ·9	57 ·4
9. 6	39. 35	10. 55	·1086	13. 54	·00921	19. 40	57 ·9	57 ·5
9. 18	39. 45	11. 39	·1081	14. 35	·00939	20. 40	58 ·2	57 ·8
9. 40	38. 50	11. 55	·1083	15. 26	·00935	21. 40	59 ·0	58 ·5
10. 0	39. 0	12. 9	·1079	16. 18	·00900	22. 40	59 ·5	58 ·8
10. 42	36. 35	12. 32	·1081		·00942	23. 40	59 ·7	59 ·0
11. 0	37. 40	12. 55	·1078	17. 37	·00928			
11. 30	36. 0	13. 24	·1086		·01104			
12. 30	37. 0	13. 32	·1084	20. 24	·01022			
12. 55	39. 5	13. 48	·1075	22. 8	·01013			
13. 35	34. 55	14. 20	·1079		·01097			
13. 45	35. 50	14. 32	·1072	23. 22	·01068			
14. 6	35. 50	14. 46	·1077					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 23		Nov. 23						
h m	° ′ ″	h m		h m		h m	°	°
14 36	21. 38. 50	15. 0	·1071					
14. 46	38. 0	15. 25	·1075					
15. 30	41. 35							
17. 15	40. 0	21. 22	·1076					
18. 40	40. 50	21. 35	·1078					
21. 20	38. 50	21. 51	·1074					
21. 40	39. 15	22. 0	·1074					
22. 6	39. 0	23. 59	·1075					
23. 0	41. 45							
Nov. 24		Nov. 24		Nov. 24		Nov. 24		
0. 0	21. 42. 30	0. 0	·1075		(†)	0. 40	60 ·0	58 ·8
1. 25	44. 0	0. 22	·1072	1. 30	·01158	1. 40	60 ·0	58 ·7
1. 57	42. 50	0. 30	·1077	1. 46	·01154	2. 40	59 ·0	58 ·5
3. 50	40. 45	0. 40	·1074	2. 42	·01239	3. 40	60 ·0	59 ·0
6. 41:	39. 0	1. 0	·1081	3. 43	·01283	4. 40	60 ·0	59 ·0
8. 11	39. 50	1. 15	·1074	4. 5	·01306	5. 40	60 ·2	59 ·0
8. 35	34. 40	1. 58	·1074	4. 52	·01320	6. 40	60 ·3	59 ·0
9. 19	37. 50	3. 14	·1072	5. 11	·01358	7. 40	60 ·3	59 ·0
9. 30	36. 45	3. 40	·1074	5. 41	·01377	8. 40	59 ·2	58 ·0
9. 33	37. 0	4. 30	·1073	6. 0	·01417	9. 40	59 ·0	58 ·4
9. 45	34. 55	5. 54	·1079	7. 7	·01455	10. 40	59 ·0	58 ·4
10. 3	34. 10	6. 34	·1077	8. 15	·01518	11. 40	58 ·5	58 ·0
10. 28	37. 45	7. 40	·1081	8. 47	·01561	21. 40	49 ·2	51 ·0
10. 44	37. 40	8. 14	·1079	9. 25	·01610			
15. 38	42. 0	8. 24	·1075	9. 40	·01640			
20. 3	40. 45	8. 46	·1080	11. 20	·01757			
21. 0	41. 10	8. 57	·1075	12. 5	·01774			
21. 11	40. 20	9. 45	·1076	16. 37	·01717			
23. 25	41. 0	10. 27	·1076	21. 3	·01655			
23. 55	41. 55	10. 56	·1079	21. 52	·01614			
23. 59	41. 35	11. 20	·1078	23. 59	·01619			
		13. 0	·1082					
		13. 33	·1080					
		13. 57	·1085					
		18. 55	·1104					
		20. 15	·1105					
		21. 10	·1097					
		23. 0	·1100					
		23. 59	·1098					
Nov. 25		Nov. 25		Nov. 25		Nov. 25		
0. 0	21. 41. 35	0. 0	·1098		(†)	1. 40	59 ·0	51 ·0
0. 31	40. 55			1. 24	·01530	3. 40	61 ·0	51 ·0
2. 1	41. 45	0. 59	·1092	2. 25	·01561	9. 40	59 ·0	51 ·0
3. 45	39. 50			5. 40	·01513	21. 40	43 ·0	45 ·0
6. 33	38. 50	4. 4	·1082	7. 28	·01496			
7. 4	38. 20			8. 58	·01517			
7. 50	38. 50	5. 30	·1083	10. 26	·01562			
9. 30	38. 50	6. 29	·1082	15. 10	·01522			
11. 5	39. 55	9. 0	·1081	17. 50	·01504			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.25		Nov.25		Nov.25		h m	°	°
h m	° ′ ″	h m		h m				
13. 14	21. 40. 50	13. 30	·1091	20. 55	·01477			
15. 9	41. 50	19. 45	·1103	23. 20	·01483			
15. 41	41. 10	23. 14	·1098	23. 59	·01460			
16. 25	42. 0	23. 32	·1094					
16. 40	41. 0	23. 59	·1095					
20. 45	40. 30							
23. 59	42. 0							
Nov.26		Nov.26		Nov.26		Nov.26		
0. 0	21. 42. 0	0. 0	·1095	0. 42	·01457	1. 40	45 ·0	46 ·0
1. 27	43. 0	2. 5	·1096	2. 22	·01362	3. 40	46 ·5	47 ·0
2. 5	41. 55	2. 44	·1096	6. 54	·01018	9. 40	48 ·5	49 ·0
4. 23	41. 5	2. 50	·1095	9. 42	·00835	21. 40	46 ·0	47 ·0
4. 33	40. 0	3. 40	·1091	11. 30	·00750			
4. 58	41. 20	4. 20	·1088	17. 2	·00750			
5. 37	39. 5	4. 30	·1091	20. 49	·00830			
6. 55	40. 0	4. 50	·1080	23. 26	·00936			
8. 57	39. 15	6. 0	·1088	23. 59	·00942			
9. 38	39. 45	7. 12	·1084					
9. 59	38. 35	9. 5	·1086					
14. 41	41. 40	9. 13	·1089					
14. 48	43. 0	9. 30	·1086					
15. 32	39. 35	10. 4	·1091					
16. 2	42. 0	10. 40	·1088					
16. 50	40. 0	11. 3	·1092					
17. 2	40. 50	11. 18	·1102					
17. 15	40. 0	11. 35	·1092					
17. 30	40. 55	13. 20	·1095					
18. 10	40. 50	13. 30	·1093					
19. 25	41. 55	14. 40	·1091					
20. 10	41. 0	15. 28	·1099					
20. 35	42. 45	15. 35	·1094					
20. 56	41. 40	16. 10	·1096					
21. 27	42. 50	16. 32	·1099					
21. 39	42. 0	17. 6	·1094					
22. 20	42. 50	17. 22	·1088					
23. 10	41. 30	17. 29	·1095					
23. 50	44. 10	19. 43	·1092					
23. 59	44. 0	20. 15	·1099					
		20. 45	·1092 ***					
		21. 12	·1097 ***					
		22. 16	·1089 ***					
		22. 27	·1086 ***					
		23. 20	·1087					
		23. 59	·1082					
Nov.27		Nov.27		Nov.27		Nov.27		
0. 0	21. 44. 0	0. 0	·1082	0. 26	·00941	1. 40	47 ·5	48 ·0
0. 40	43. 35	0. 30	·1084	1. 43	·00910	3. 40	48 ·5	49 ·0
1. 49	44. 0	1. 2	·1078	2. 45	·00876	9. 40	52 ·5	52 ·5
2. 0	43. 0	1. 49	·1082	3. 34	·00818	21. 40	44 ·5	46 ·0
2. 25	43. 50	2. 10	·1078	5. 8	·00620			
2. 48	44. 0	2. 40	·1081	5. 31	·00645			
3. 9	41. 45	3. 0	·1069	7. 59	·00670			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.27		Nov.27		Nov.27		h m	°	°
h m	° ′ ″	h m		h m				
3. 25	21. 42. 20	3. 56	·1081	9. 40	·00657			
5. 0	41. 30	4. 55	·1080	11. 35	·00619			
5. 54	37. 35	5. 18	·1083	13. 24	·00678			
6. 25	39. 20	5. 38	·1077	14. 52	·00797			
8. 10	39. 40	6. 14	·1078	19. 15	·01285			
10. 8	39. 0	6. 30	·1076	21. 9	·01461			
10. 31	37. 0	8. 55	·1078	22. 8	·01520			
10. 42	38. 20	9. 4	·1076	22. 19	·01501			
11. 0	38. 15	9. 48	·1077	23. 55	·01493			
11. 15	39. 0	10. 14	·1076					
11. 40	38. 50	10. 35	·1084					
12. 55	41. 0	10. 45	·1079					
15. 51	42. 50	10. 58	·1083					
19. 3	40. 55	11. 14	·1077					
22. 9	41. 0	11. 40	·1086					
23. 59	42. 40	12. 28	·1080					
		15. 15	·1089					
		17. 51	·1093					
		20. 30	·1094					
		23. 0	·1082					
		23. 28	·1093					
Nov.28		Nov.28		Nov.28		Nov.28		
0. 10	21. 41. 30	0. 2	·1082	0. 5	·01485	1. 40	45 ·0	46 ·0
1. 10	42. 5	0. 30	·1084	2. 22	·01518	3. 40	45 ·0	46 ·5
5. 38	39. 30	1. 26	·1082	3. 42	·01481	9. 40	49 ·0	48 ·5
6. 3	36. 30	2. 20	·1079	8. 26	·01239	21. 40	40 ·0	42 ·0
6. 33	38. 40	2. 40	·1085	10. 12	·01191			
9. 36	38. 10	3. 0	·1082	13. 15	·01194			
9. 55	35. 5	3. 15	·1081	14. 55	·01203			
10. 1	35. 0	5. 35	·1080	17. 18	·01482			
10. 9	37. 40	6. 40	·1083		·01423			
11. 0	36. 55	9. 0	·1081	21. 38	·01397			
11. 58	37. 55	10. 15	·1080	22. 0	·01255			
12. 34	41. 0	11. 23	·1087	22. 32	·01297			
13. 3	40. 15	11. 52	·1082	23. 59	·01294			
18. 25	41. 15	12. 5	·1088					
19. 5	40. 25	12. 44	·1088					
19. 26	41. 0	12. 58	·1091					
20. 10	40. 25	13. 50	·1088					
22. 26	41. 30	15. 40	·1092					
23. 7	42. 55	16. 40	·1092					
23. 40	42. 20	17. 55	·1097					
23. 59	42. 30	18. 20	·1094					
		19. 50	·1102					
		21. 36	·1103					
		22. 32	·1093					
		23. 59	·1093					
Nov.29		Nov.29		Nov.29		Nov.29		
	(†)		(†)		(†)			
1. 10	21. 43. 15	1. 10	·1099	1. 11	·01279	1. 40	40 ·5	42 ·5
1. 27	42. 40	1. 22	·1092	2. 32	·01276	3. 40	42 ·0	42 ·5
1. 34	42. 55	1. 36	·1092	4. 18	·01196	9. 40	42 ·5	43 ·0
2. 2	40. 30	2. 0	·1087 ***	6. 45	·01030	23. 15	33 ·0	32 ·4
2. 50	42. 10			7. 40	·00987			
4. 4	42. 0	3. 40	·1091	9. 0	·00944			
4. 32	40. 55	4. 14	·1082	10. 56	·00976			
4. 49	42. 50	4. 44	·1084 ***	13. 52	·01361			
5. 10	43. 0				·01338			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 29		Nov. 29		Nov. 29				
h m	° ′ ″	h m		h m		h m	°	°
5. 35	21. 45. 0	7. 37	·1079	17. 40	·01361			
6. 20	42. 0	7. 55	·1083		·01296			
6. 32	42. 35	8. 3	·1077	18. 19	·01352			
7. 2	41. 40	8. 28	·1083	19. 36	·01401			
7. 20	39. 0	9. 0	·1082	21. 11	·01445			
7. 28	39. 50	10. 15	·1086	23. 8	·01420			
7. 32	39. 0	10. 40	·1091	23. 14	·01395			
7. 55	41. 30	11. 14	·1080	23. 21	·01393			
9. 42	36. 20	11. 58	·1095					
9. 59	38. 0	12. 5	·1104					
10. 20	38. 0	12. 35	·1099					
10. 37	39. 40	12. 57	·1098					
10. 53	38. 50	13. 14	·1094					
11. 0	39. 30	20. 0:	·1106					
11. 27	40. 0	22. 32	·1103					
11. 58	39. 10	23. 18	·1101					
12. 15	41. 0	23. 59	·1102					
12. 54	39. 30							
14. 33	40. 0							
16. 10	40. 40							
20. 12:	39. 50							
21. 5	41. 5							
23. 34	42. 20							
23. 59	41. 50							
Nov. 30		Nov. 30		Nov. 30		Nov. 30		
0. 0	21. 41. 50	0. 0	·1102	0. 0	·01400	7. 32	35 ·8	39 ·0
0. 46	42. 0	1. 0	·1104	1. 12	·01417	12. 40	36 ·0	39 ·0
1. 0	42. 30	2. 20	·1105	2. 42	·01398	13. 40	37 ·6	39 ·2
1. 40	42. 40	4. 50	·1109	4. 52	·01300	14. 40	38 ·0	40 ·0
2. 10	41. 50	5. 12	·1107	9. 38	·01044	15. 40	37 ·5	39 ·5
2. 55	41. 50	5. 54	·1111	14. 54	·00976	16. 40	37 ·0	39 ·3
4. 9	40. 0	6. 58	·1110	16. 11	·00962	17. 40	38 ·0	40 ·0
4. 32	40. 10	7. 15	·1112	19. 13	·00890	18. 40	38 ·3	40 ·1
5. 16	38. 50	8. 26	·1109	20. 40	·00895	19. 40	38 ·5	40 ·3
6. 15	39. 50	8. 54	·1111	23. 59	·00911	20. 40	38 ·0	39 ·6
7. 15	38. 35	9. 2	·1108			21. 40	38 ·1	39 ·0
8. 11	38. 50	9. 34	·1109			22. 40	38 ·8	39 ·0
8. 57	38. 30		***			23. 40	39 ·0	39 ·0
16. 45	39. 50	12. 45	·1107					
17. 7	40. 40	13. 0	·1105					
17. 15	40. 45	13. 20	·1104					
17. 45	38. 55	13. 45	·1103					
22. 15	40. 5	14. 34	·1106					
23. 59	41. 25	19. 5	·1104					
		20. 30	·1101					
		20. 50	·1102					
		23. 59	·1090					
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 0	21. 41. 25	0. 0	·1090		(†)	0. 40	40 ·0	39 ·4
3. 45	39. 25	1. 45	·1086	1. 12	·00882	1. 40	40 ·7	40 ·3
4. 28	39. 45	2. 26	·1089	2. 21	·00798	2. 40	41 ·7	41 ·5
5. 4	39. 30	3. 19	·1090	3. 42	·00616	3. 40	42 ·2	41 ·8
6. 26	40. 5	3. 50	·1090	3. 49	·00620	4. 40	43 ·5	43 ·2
6. 30	41. 0	4. 0	·1086		·00942	5. 40	43 ·8	43 ·0
6. 41	39. 45	4. 29	·1085	6. 12	·00658	6. 40	44 ·3	43 ·5
7. 43	39. 50	5. 0	·1081	8. 44	·00658	7. 40	44 ·8	43 ·2
8. 20	38. 40	6. 2	·1081		·00858	8. 40	44 ·7	43 ·1

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
h m	° ′ ″	h m		h m		h m	°	°
12. 6	21. 38. 15	6. 30	·1077	10. 35	·00739	9. 40	44 ·6	44 ·0
12. 15	36. 45	7. 18	·1078	14. 6	·00682	10. 40	44 ·6	44 ·0
13. 7	37. 40	7. 50	·1081	15. 42	·00751	11. 40	44 ·5	44 ·0
13. 45	39. 0	10. 0	·1082	17. 55	·00930	21. 40	37 ·0	38 ·5
14. 15	38. 55	11. 30	·1079	20. 13	·01221			
14. 55	40. 0	12. 2	·1079	21. 54	·01457			
16. 0	40. 10	12. 24	·1089	22. 38	·01412			
20. 4	41. 30	12. 45	·1081	23. 59	·01460			
21. 0	40. 45	13. 2	·1086					
	***	13. 44	·1085					
23. 59	41. 0	14. 0	·1088					
		14. 45	·1087					
		15. 40	·1092					
		19. 5:	·1102					
		10. 26	·1103					
		20. 50	·1099					
		21. 30	·1102					
		22. 30	·1099					
			(†)					
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 15	21. 41. 20	0. 19	·1092	0. 15	·01481	1. 40	38 ·0	38 ·7
1. 12	42. 10	1. 0	·1088	2. 12	·01494	3. 40	39 ·5	39 ·5
2. 40	40. 50	1. 19	·1087	3. 15	·01459	9. 40	39 ·6	40 ·0
6. 55	39. 10	2. 15	·1090	6. 30	·01221	21. 40	39 ·0	40 ·0
7. 24	39. 50	4. 30	·1089	9. 28	·01148			
8. 20	39. 5	5. 3	·1093	18. 10	·01217			
8. 44	40. 0	6. 27	·1091	21. 38	·01118			
9. 13	39. 45	7. 10	·1090	23. 32	·01051			
10. 32	39. 0	8. 4	·1092	23. 59	·01035			
12. 46	40. 0	8. 27	·1089					
14. 2	39. 35	8. 50	·1091					
14. 41	37. 50	9. 58	·1090					
15. 25	41. 5	10. 32	·1094					
16. 45	38. 0	13. 6	·1094					
18. 25	40. 45	13. 33	·1099					
18. 35	39. 30	13. 54	·1098					
19. 15	40. 20	14. 20	·1102					
19. 45	39. 0	15. 2	·1096					
20. 10	39. 55	16. 0	·1100					
21. 4	39. 40	16. 58	·1108					
21. 47	42. 40	18. 30	·1104					
	***	18. 44	·1108					
23. 50	43. 0	19. 40	·1100					
23. 59	43. 15	20. 58	·1100					
		21. 14	·1094					
		21. 47	·1094					
		23. 25	·1083					
		23. 59	·1082					
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	21. 43. 15	0. 0	·1082	1. 1	·00956	1. 40	42 ·0	42 ·0
0. 13	45. 15	0. 14	·1085	1. 50	·00881	3. 40	44 ·0	43 ·0
0. 50	50. 30	1. 51	·1060	3. 54	·00636	9. 40	45 ·0	44 ·0
1. 13	48. 55	2. 45	·1071	4. 15	·00658	21. 40	39 ·5	41 ·0
1. 30	49. 0	3. 0	·1063	6. 13	·00664			
1. 50	47. 40	3. 14	·1065	10. 10	·00636			
3. 25	49. 30	3. 57	·1051	12. 58	·00751			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 3		Dec. 3		Dec. 3				
h m	° ′ ″	h m		h m		h m	°	°
4. 15	21. 45. 0	4. 28	·1055	17. 6	·00858			
4. 45	45. 0	4. 32	·1051	21. 33	·01155			
5. 1	46. 50	4. 58	·1049	23. 59	·01337			
5. 28	42. 0	5. 12	·1040					
5. 34	42. 50	5. 26	·1048					
5. 51	41. 50	5. 38	·1042					
6. 1	40. 0	6. 0	·1053					
6. 33	40. 55	6. 36	·1058					
6. 41	42. 50	6. 42	·1055					
7. 3	41. 10	7. 2	·1060					
7. 16	42. 40	7. 44	·1038					
7. 30	38. 40	8. 30	·1090					
7. 36	38. 5	8. 56	·1038					
8. 5	11. 35	9. 8	·1046					
8. 56	34. 0	9. 37	·1046					
9. 6	27. 15	9. 40	·1055					
9. 17	31. 40	10. 0	·1053					
10. 3	38. 35	10. 20	·1064					
10. 35	35. 40	10. 29	·1058					
12. 34	39. 0	12. 35	·1067					
14. 0	40. 0	13. 53	·1068					
14. 36	42. 50	15. 40	·1081					
15. 40	38. 40	16. 27	·1077					
16. 16	39. 30	16. 40	·1078					
16. 30	38. 45	17. 20	·1077					
16. 44	40. 0	18. 25	·1082					
19. 20	41. 25	19. 9	·1081					
21. 4	40. 50	19. 56	·1078					
22. 25	41. 30	20. 2	·1080					
23. 20	42. 50	22. 24	·1073					
23. 59	42. 0	23. 45	·1063					
		23. 59	·1066					
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 0	21. 42. 0	0. 0	·1066	0. 30	·01360	1. 40	39 ·7	40 ·5
1. 15	45. 0	2. 5	·1072	0. 58	·01378	3. 40	42 ·0	42 ·0
1. 50	45. 50	2. 40	·1074		(†)	9. 40	46 ·0	44 ·7
3. 10	42. 45	4. 28	·1076	1. 40	·01591*	21. 40	44 ·0	44 ·8
4. 25	41. 40	5. 25	·1080	3. 40	·01648*			
5. 50	39. 30	6. 12	·1079		(†)			
6. 27	40. 0	6. 28	·1081	5. 2	·01270			
7. 30	39. 0	7. 24	·1078	7. 16	·00991			
9. 10	39. 45	9. 0	·1083	8. 11	·00924			
10. 50	38. 50	10. 0	·1084	8. 53	·00778			
11. 26	38. 20	10. 15	·1081	9. 10	·00777			
11. 54	38. 55	10. 45	·1081	10. 0	{·00716			
12. 20	37. 40	11. 4	·1078		{·00748			
12. 41	38. 50	11. 45	·1088	14. 7	·00699			
13. 25	41. 15	11. 58	·1082	15. 40	·00654			
16. 11	39. 35	12. 26	·1082	18. 28	·00697			
18. 0	40. 40	12. 33	·1085	20. 20	·00701			
19. 29	40. 45	14. 15	·1086	23. 36	·00686			
19. 57	43. 50	16. 0	·1098	23. 38	·00717			
20. 38	42. 45	19. 12	·1096	23. 59	·00728			
21. 45	43. 50	19. 34	·1091					
22. 9	44. 0	20. 8	·1096					
22. 26	44. 0	21. 0	·1096					
23. 8	45. 35	21. 18	·1093					
		21. 52	·1094					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Dec. 4						
h m	° ′ ″	h m		h m		h m	°	°
		22. 30	·1094					
		23. 3	·1083					
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
0. 4	21. 42. 25	0. 2	·1066	0. 0	·00719	1. 40	47 ·0	46 ·5
0. 15	43. 45	0. 12	·1070	3. 17	·00879	3. 40	50 ·0	50 ·0
0. 27	42. 20	0. 28	·1066	4. 40	·00914	9. 40	53 ·0	52 ·6
1. 3	44. 0	1. 45	·1065	7. 22	·00924	21. 40	53 ·0	53 ·0
2. 5	42. 20	2. 10	·1067	10. 37	·00958			
2. 30	40. 0	2. 28	·1062	19. 36	·00940			
2. 50	41. 0	3. 0	·1067	22. 40	·01079			
	***	5. 15	·1069	23. 32	·01095			
5. 45	40. 25	6. 0	·1061					
6. 15	37. 20	6. 46	·1069					
6. 54	40. 45	8. 26	·1072					
8. 35	39. 40	9. 32	·1066					
9. 50	38. 20	11. 0	·1069					
10. 20	39. 40	11. 55	·1066					
10. 35	38. 55	14. 30	·1070					
12. 15	40. 40	19. 57	·1073					
12. 40	39. 50	21. 40	·1072					
14. 2	42. 0	21. 55	·1067					
15. 51	40. 50	22. 56	·1066					
16. 35	41. 20	23. 59	·1074					
21. 15	40. 5							
23. 59	42. 40							
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 0	21. 42. 40	0. 0	·1074	0. 0	·01113	1. 40	54 ·0	53 ·5
1. 38	42. 50	0. 26	·1072	1. 10	·01110	3. 40	55 ·5	55 ·0
3. 27:	41. 0	0. 45	·1076	2. 42	·01057	9. 40	56 ·0	56 ·0
9. 4	40. 30	3. 28	·1071	3. 41	{·00977	22. 43	58 ·0	58 ·5
9. 22	39. 0	4. 40	·1074		{·01018			
9. 47	40. 10	5. 46	·1078	3. 46	{·01021			
12. 27	40. 40	10. 53	·1074		{·01059			
12. 30	41. 15	11. 44	·1077	5. 22	·01016			
12. 57	40. 50	12. 28	·1074	16. 45	{·01006			
13. 10	42. 0	14. 15	·1078		{·01098			
13. 37	41. 10	16. 30	·1078	18. 35	·01077			
13. 50	42. 0	17. 24	·1081	22. 45	·01058			
14. 20	41. 25	21. 33	·1079		(†)			
20. 11:	41. 0	23. 59	·1075					
23. 59	43. 0							
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	21. 43. 0	0. 0	·1075	0. 0	·01057	7. 26	58 ·0	58 ·0
1. 35	45. 0	1. 56	·1072	5. 30	·01042	12. 40	56 ·5	56 ·7
2. 6	43. 35	2. 14	·1063	13. 7	·01120	13. 40	57 ·0	56 ·8
2. 28	45. 5	4. 40	·1074	14. 37	·01129	14. 40	57 ·5	56 ·5
2. 47	43. 50	9. 0	·1075	15. 41	·01045	15. 40	57 ·8	56 ·8
3. 42	43. 0	11. 40	·1071	19. 6	·01043	16. 40	58 ·2	57 ·0
4. 25	42. 0	12. 26	·1071	19. 33	·01096	17. 40	58 ·0	57 ·0
12. 28	39. 50	13. 55	·1059	22. 37	·01059	18. 40	59 ·0	57 ·2
15. 50	40. 10	17. 0	·1061	23. 26	·01058	19. 40	59 ·3	57 ·6
22. 2	38. 15	18. 57	·1058			20. 40	59 ·7	58 ·0
23. 0	39. 25	20. 0	·1062			21. 40	60 ·0	58 ·3
23. 24	39. 0	21. 30	·1060			22. 40	60 ·1	58 ·6
23. 59	41. 0	22. 0	·1063			23. 40	60 ·3	58 ·7
		22. 28	·1062					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Dec. 7 h m		h m		h m	°	°
		23. 30	·1057					
		23. 59	·1053					
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	21. 41. 0	0. 0	·1053	0. 0	·01058	0. 40	60 ·6	59 ·4
0. 58	42. 0	0. 46	·1053	0. 30	·01041	1. 40	61 ·1	59 ·6
					·01098	2. 40	61 ·3	60 ·0
1. 40	44. 55	2. 30	·1041					
2. 12	45. 20	3. 45	·1052	1. 17	·01105	3. 40	61 ·6	60 ·0
2. 42	44. 50	4. 27	·1054	1. 37	·01136	4. 40	60 ·8	60 ·0
3. 33	42. 0	4. 46	·1051	1. 49	·01138	5. 40	60 ·0	59 ·8
3. 57	41. 5	6. 25	·1056	2. 54	·01467	6. 40	61 ·2	59 ·8
4. 32	42. 0	6. 34	·1054		·01541	7. 40	61 ·3	59 ·7
5. 35	39. 40	7. 15	·1053	4. 2	·01559	8. 40	61 ·5	59 ·8
7. 42	39. 0	7. 57	·1049	4. 36	·01598	9. 40	61 ·4	59 ·5
8. 10	34. 50	8. 16	·1059	6. 42	·01669	10. 40	61 ·4	59 ·5
8. 24	35. 0	8. 28	·1052	10. 7	·01698	11. 40	61 ·2	59 ·0
8. 35	34. 0	8. 50	·1055	12. 37	·01670	21. 40	58 ·0	58 ·0
9. 27	38. 0	9. 28	·1052	14. 10	·01679			
9. 50	37. 45	11. 15	·1056	16. 20	·01712			
11. 58	38. 0	11. 43	·1055	19. 37	·01821			
12. 30	35. 20	12. 14	·1066	23. 26	·01955			
12. 40	36. 50	12. 29	·1059	23. 59	·01842			
13. 4	36. 40	14. 40	·1061					
13. 15	37. 50	17. 5	·1068					
13. 30	37. 45	19. 27	·1070					
14. 2	38. 50	20. 0	·1068					
15. 0	39. 45	21. 30	·1072					
20. 40	39. 10	23. 59	·1063					
23. 20	40. 50							
23. 59	40. 50							
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 0	21. 40. 50	0. 0	·1063	0. 33	·01844	1. 40	58 ·5	57 ·0
1. 40	41. 53*	0. 24	·1064	1. 49	·01861	3. 40	59 ·2	58 ·0
3. 40	41. 17*	1. 49	·1061	2. 46	·01826	9. 40	59 ·0	58 ·5
9. 40	37. 43*	3. 13	·1060	3. 54	·01762	21. 40	56 ·8	57 ·0
21. 40	40. 23*	4. 26	·1062	6. 10	·01637			
			(†)	8. 20	·01543			
		9. 40	·1065*	9. 48	·01526			
		21. 40	·1069*	10. 7	·01540			
					·01774			
				17. 17	·01861			
					·01817			
				19. 6	·01850			
				23. 59	·01882			
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
1. 40	21. 39. 50*	1. 40	·1063*	0. 15	·01876	1. 40	58 ·2	57 ·5
3. 40	37. 21*	3. 40	·1066*	1. 25	·01860	3. 40	59 ·0	57 ·7
9. 40	36. 13*	9. 40	·1063*	5. 22	·01758	9. 40	58 ·6	57 ·7
21. 40	40. 40*	21. 40	·1074*	7. 10	·01701	21. 40	55 ·0	55 ·5
				9. 18	·01684			
				11. 35	·01682			
				14. 41	·01795			
				16. 57	·01889			
					·01824			
				19. 52	·01837			
				23. 59	·01854			

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 11		Dec. 11		Dec. 11		Dec. 11		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 42. 24*	1. 40	·1060*	1. 40	·01149	1. 40	56 ·3	55 ·7
3. 40	43. 46*	3. 40	·1053*		(†)	3. 40	58 ·0	57 ·0
9. 40	35. 25*	9. 40	·1066*	2. 2	·01820	9. 40	57 ·0	56 ·5
21. 40	40. 36*	21. 40	·1078*	3. 48	·01708	21. 40	52 ·0	52 ·0
				6. 26	·01519			
				7. 50	·01494			
				9. 56	·01550			
				11. 20	·01616			
				15. 28	·01819			
					·01760			
				19. 30	·01773			
				23. 59	·01800			
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
1. 40	21. 41. 52*	1. 40	·1068*	0. 0	·01680	1. 40	53 ·4	53 ·5
3. 40	42. 5*	3. 40	·1055*	1. 17	·01682	3. 40	55 ·0	54 ·5
9. 40	39. 56*	9. 40	·1061*	2. 28	·01624	9. 40	55 ·0	54 ·5
21. 40	38. 59*	21. 40	·1077*	4. 38	·01494	21. 40	50 ·0	50 ·5
				5. 54	·01285			
				7. 34	·01157			
				9. 26	·01102			
				11. 5	·01083			
				19. 54	·01417			
				22. 10	·01404			
				23. 24	·01518			
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
1. 40	21. 42. 14*	1. 40	·1068*	0. 0	·01521	1. 40	51 ·5	52 ·0
3. 40	37. 14*	3. 40	·1081*	2. 34	·01562	3. 40	53 ·0	53 ·0
9. 40	36. 21*	9. 40	·1066*	4. 10	·01562	9. 40	53 ·0	53 ·3
23. 10	41. 0*	23. 10	·1080*	8. 40	·01489	23. 10	49 ·0	49 ·5
				15. 25	·01467			
				23. 59	·01394			
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
9. 40	21. 36. 51*	9. 40	·1072*		(†)	9. 40	50 ·0	51 ·0
21. 40	39. 42*	21. 40	·1070*	3. 57	·01318	12. 40	49 ·2	50 ·7
				7. 19	·01077	13. 40	49 ·2	50 ·0
				8. 26	·01052	14. 40	49 ·7	50 ·0
				9. 50	·01048	15. 40	50 ·0	50 ·0
				14. 8	·01228	16. 40	50 ·2	50 ·2
				14. 41	·01281	17. 40	50 ·7	50 ·4
				15. 19	·01290	18. 40	51 ·0	50 ·2
				19. 34	·01647	19. 40	51 ·1	50 ·2
				21. 52	·01664	20. 40	51 ·4	50 ·2
				23. 59	·01687	21. 40	51 ·7	50 ·5
						22. 40	51 ·7	50 ·5
						23. 40	51 ·7	50 ·5
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
	(†)	1. 40	·1066		(†)	0. 40	52 ·0	50 ·7
1. 40	21. 41. 38*		(†)	1. 15	·01377	1. 40	52 ·3	51 ·0
2. 10	40. 50	2. 2	·1066	2. 10	·01366	2. 40	53 ·0	52 ·0
3. 54	39. 30	4. 37	·1068	3. 12	·01315	3. 40	53 ·3	52 ·3
4. 11	38. 50	4. 56	·1070	5. 48	·01167	4. 40	53 ·3	52 ·2
4. 25	39. 0	5. 14	·1067	7. 32	·01115	5. 40	53 ·3	52 ·2
6. 3	38. 5	6. 45	·1069	9. 12	·00997	6. 40	53 ·5	52 ·3
6. 54	38. 20	7. 20	·1065	9. 45	·01118	7. 40	53 ·0	52 ·5
7. 37	37. 40	8. 5	·1069		·01298	8. 40	52 ·7	52 ·0
7. 58	38. 0	11. 57	·1073	11. 52	·01336	9. 40	52 ·3	51 ·8
11. 20	38. 0	12. 45	·1076	16. 45	·01620	10. 40	51 ·7	51 ·5

December 9 to December 15. The Declination and Horizontal-Force Time-Piece was under repair.

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
h m	° ′ ″	h m		h m		h m	°	°
15. 8	21. 40. 45	13. 28	·1075	19. 32	·01601	11. 40	51·3	50·5
16. 50	40. 55	19. 25	·1098	22. 55	·01557	21. 40	43·2	44·2
21. 51 :	40. 10	20. 24	·1104	23. 59	·01565			
22. 30	40. 0	21. 0	·1098					
23. 10	41. 0	21. 46	·1099					
23. 59	40. 55	22. 15	·1090					
		23. 59	·1085					
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 0	21. 40. 55	0. 0	·1085	0. 32	·01557	1. 40	43·2	43·5
1. 48	41. 10	1. 10	·1084	3. 0	·01600	3. 40	45·0	44·0
3. 12	40. 45	2. 54	·1086	3. 52	·01577	9. 40	46·5	46·5
4. 30	39. 50	3. 10	·1083	4. 47	·01535	21. 40	39·0	41·0
4. 45	40. 40	4. 18	·1082	5. 40	·01476			
5. 41	39. 35	4. 40	·1086	7. 1	·01404			
6. 10	40. 20	5. 27	·1083	7. 22	·01401			
6. 40	39. 45	6. 34	·1080	11. 5	·01280			
7. 2	35. 40	6. 55	·1070	14. 52	·01259			
7. 34	38. 30	7. 18	·1079	17. 27	{ ·01554			
8. 11	38. 50	8. 19	·1080		{ ·01503			
8. 30	39. 55	8. 27	·1077	18. 50	·01516			
8. 57	38. 0	9. 15	·1083	22. 35	·01517			
10. 6	37. 50	10. 0	·1084	23. 54	·01538			
10. 13	34. 20	10. 16	·1099					
10. 46	35. 50	10. 26	·1094					
11. 0	36. 0	10. 34	·1096					
11. 14	37. 15	10. 46	·1093					
12. 5	39. 0	10. 54	·1099					
13. 0	38. 40	11. 25	·1093					
14. 2	39. 10	11. 42	·1092					
15. 0	38. 55	11. 50	·1096					
15. 6	39. 45	11. 58	·1091					
15. 30	39. 50	12. 28	·1093					
16. 6	40. 45	13. 2	·1092					
16. 30	39. 45	13. 26	·1094					
17. 9	40. 0	14. 6	·1094					
18. 4	39. 50	14. 34	·1099					
18. 58	41. 45	14. 47	·1097					
19. 30	40. 20	15. 4	·1099					
20. 27	40. 40	15. 55	·1100					
21. 20	48. 0	16. 50	·1107					
22. 29	48. 15	17. 19	·1108					
22. 34	43. 45	18. 2	·1107					
22. 45	42. 10	18. 42	·1108					
23. 7	41. 50	19. 26	·1107					
23. 30	42. 10	20. 58	·1092					
23. 57	41. 0	21. 28	·1104					
		21. 45	·1100					
		22. 10	·1104					
		22. 24	·1102					
		22. 42	·1107					
		23. 20	·1095					
		23. 59	·1092					
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
c. 2	21. 40. 45	c. c	·1092	1. 0	·01503	1. 40	41·0	42·0
0. 11	40. 50	0. 40	·1089	2. 30	·01450	3. 40	43·3	43·0
0. 28	41. 40	1. 55	·1084	4. 0	·01364	9. 40	46·0	45·0
1. 10	40. 45	2. 6	·1087	5. 46	·01178	21. 40	46·2	47·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
h m	° ′ ″	h m		h m		h m	°	°
2. 4	21. 41. 35	3. 4	·1079	7. 6	·00990			
2. 24	43. 55	4. 8	·1080	9. 13	·00793			
3. 12	41. 45	4. 30	·1060	10. 51	·00659			
4. 13	44. 50	4. 55	·1055	14. 40	·00658			
4. 58	34. 25	5. 0	·1061	19. 35	·00668			
5. 2	35. 45	5. 5	·1054	21. 36	{ ·00686			
5. 6	34. 50	5. 25	·1060		{ ·01030			
5. 24	37. 0	5. 33	·1068	23. 59	·00968			
5. 27	37. 0	5. 46	·1067					
5. 35	38. 0	6. 4	·1073					
5. 45	38. 0	6. 28	·1071					
6. 9	43. 50	6. 34	·1074					
6. 30	42. 35	6. 46	·1073					
6. 40	43. 40	7. 20	·1077					
6. 58	42. 0	7. 35	·1071					
8. 20	39. 40	8. 5	·1077					
8. 40	36. 50	8. 40	·1077					
9. 3	26. 40	9. 0	·1074					
9. 13	26. 0	9. 30	·1090					
10. 4	35. 0	9. 58	·1080					
10. 31	37. 40	10. 55	·1072					
10. 46	35. 0	11. 20	·1080					
11. 6	33. 55	11. 39	·1074					
11. 30	36. 50	11. 58	·1079					
11. 58	36. 45	13. 28	·1090					
13. 0	39. 0	13. 57	·1083					
13. 28	37. 50	18. 0	·1088					
13. 40	38. 30	19. 25	·1084					
14. 14	37. 0	20. 15	·1088					
14. 40	38. 45	20. 32	·1084					
17. 42	38. 50	21. 53	·1086					
18. 12	39. 50		(†)					
18. 54	39. 15							
19. 0	39. 35							
22. 15	40. 0							
22. 50	40. 55							
	(†)							
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
c. 8	21. 42. 0	0. 11	·1080	0. 10	·00959	1. 40	49·0	48·3
1. 7	42. 0	1. 6	·1080	2. 6	·00843	3. 40	51·0	50·3
1. 40	41. 5	4. 40	·1069	5. 25	·00878	9. 40	53·0	53·0
3. 25	40. 5	5. 30	·1071	10. 17	·00884	21. 40	48·3	49·0
5. 22	42. 0	6. 56	·1077	14. 45	·00862			
6. 27	40. 40	7. 40	·1073	17. 56	·00936			
7. 54	41. 0	8. 14	·1060	20. 51	·01079			
8. 30	34. 35	8. 37	·1069	22. 23	·01174			
8. 55	39. 25	9. 0	·1060	23. 59	·01318			
11. 34	40. 40	9. 37	·1072					
12. 37	38. 10	10. 40	·1076					
13. 30	40. 20	11. 15	·1076					
13. 45	38. 20	11. 32	·1077					
14. 0	39. 50	12. 3	·1073					
14. 28	38. 45	13. 15	·1072					
14. 43	39. 50	13. 48	·1071					
15. 50	39. 0	14. 10	·1076					
16. 12	38. 20	14. 25	·1070					
16. 45	40. 30	16. 0	·1074					
17. 32	39. 50	16. 37	·1082					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Dec. 18	° ′ ″	Dec. 18		h m		h m		
h m		h m						
18. 10	21. 40. 45	18. 53	·1085					
19. 0	40. 45	19. 28	·1087					
19. 20	41. 10	19. 32	·1093					
19. 30	40. 30	20. 40	·1089					
21. 46	41. 0	21. 50	·1084					
22. 55	40. 40	23. 25	·1076					
23. 21	41. 40							
	(†)							
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 25	21. 42. 0	0. 20	·1076	0. 12	·01325	1. 40	49 ·0	48 ·5
1. 7	42. 35	7. 26	·1077	1. 0	·01368	3. 40	50 ·5	49 ·5
4. 20	39. 20	9. 0	·1073	2. 17	·01381	9. 40	49 ·3	48 ·3
7. 0	38. 30	9. 56	·1073	3. 13	·01358	21. 40	46 ·0	47 ·0
7. 37	40. 0	10. 42	·1078	6. 22	·01187			
9. 30	39. 0	18. 57	·1086	7. 35	·01166			
		19. 36	·1091	8. 46	·01195			
14. 25	39. 50	20. 0	·1088	14. 54	·01484			
14. 40	39. 15	21. 0	·1090	16. 49	·01550			
15. 20	40. 10	23. 0	·1078	18. 18	·01598			
16. 0	39. 10	23. 59	·1080	20. 12	·01615			
17. 35	40. 5			21. 56	·01597			
19. 20	40. 0			23. 47	·01561			
21. 58	39. 20							
23. 10	41. 0							
23. 59	42. 0							
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 0	21. 42. 0	0. 0	·1080	0. 14	·01542	1. 40	49 ·0	48 ·3
1. 10	42. 20	0. 36	·1075	1. 37	·01408	3. 40	51 ·0	50 ·5
1. 35	43. 0	1. 40	·1076	3. 18	·01365	9. 40	51 ·8	51 ·0
2. 30	40. 45	2. 25	·1069	4. 32	·01214	23. 15	49 ·0	50 ·0
3. 15	40. 20	3. 13	·1066	5. 40	·01019			
3. 36	41. 0	3. 30	·1072	6. 36	·00920			
4. 37	40. 50	3. 49	·1067	7. 30	·00840			
4. 54	41. 50	4. 20	·1073		·00891			
5. 10	41. 50	4. 30	·1070	15. 47	·00858			
5. 40	40. 45	4. 56	·1077	21. 37	·00956			
7. 13	40. 20	5. 25	·1070	23. 32	·00998			
7. 33	39. 40	6. 16	·1072					
7. 58	40. 10	6. 32	·1069					
9. 25	38. 35	7. 15	·1072					
10. 10	39. 20	7. 33	·1068					
11. 3	39. 45	8. 14	·1074					
11. 31	39. 0	8. 55	·1070					
		9. 30	·1071					
15. 20	40. 10	10. 28	·1069					
16. 4	40. 30	11. 7	·1073					
16. 32	39. 20	11. 30	·1068					
17. 7	40. 30	11. 48	·1071					
17. 20	39. 55	11. 59	·1068					
20. 48	41. 0	12. 17	·1073					
21. 30	40. 50	12. 56	·1068					
23. 20	42. 30	16. 6	·1073					
23. 59	41. 40	16. 50	·1077					
		17. 30	·1077					
		19. 5	·1086					
		19. 42	·1085					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
h m	° ′ ″	Dec. 20		h m		h m		
		h m						
		20. 0	·1089					
		20. 54	·1086					
		21. 40	·1088					
		23. 59	·1079					
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
0. 0	21. 41. 40	0. 0	·1079	0. 0	·00998	7. 28	49 ·2	49 ·4
1. 4	41. 0	1. 19	·1078	3. 28	·01038	12. 40	49 ·0	49 ·0
2. 10	44. 0	1. 30	·1082	4. 48	·01039	13. 40	48 ·9	49 ·0
2. 32	43. 20	1. 48	·1073	7. 17	·01075	14. 40	49 ·0	49 ·0
2. 45	43. 50	2. 3	·1078	15. 20	·01156	15. 40	49 ·1	49 ·3
3. 4	42. 0	3. 25	·1071	16. 43	·01118	16. 40	50 ·1	49 ·7
3. 58	42. 55	4. 10	·1077	19. 8	·01055	17. 40	50 ·5	50 ·4
4. 26	42. 50	4. 35	·1070	21. 0	·00969	18. 40	51 ·0	50 ·6
4. 34	41. 0	5. 0	·1077	23. 59	·00868	19. 40	51 ·5	51 ·0
5. 30	40. 0	5. 40	·1080			20. 40	51 ·0	50 ·7
6. 41	40. 50	7. 0	·1077			21. 40	51 ·5	50 ·2
7. 12	38. 50	8. 42	·1078			22. 40	51 ·8	50 ·5
7. 35	40. 0	8. 54	·1080			23. 40	51 ·9	50 ·4
8. 0	38. 30	9. 5	·1078					
8. 11	39. 50	9. 54	·1077					
8. 30	40. 0	10. 3	·1081					
8. 57	38. 50	10. 20	·1076					
9. 7	40. 0	11. 0	·1079					
10. 2	39. 50	12. 45	·1074					
10. 11	40. 0	14. 30	·1065					
10. 26	39. 0	16. 30	·1067					
10. 31	39. 50	18. 56	·1065					
13. 20	39. 55	20. 0	·1070					
13. 57	39. 50	22. 13	·1064					
14. 45	38. 45		(†)					
16. 10	40. 0							
16. 43	39. 0							
17. 39	39. 50							
18. 30	38. 50							
19. 25	39. 45							
22. 15	40. 0							
	(†)							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
	(†)	1. 0	·1057	1. 9	·00860	0. 40	52 ·2	50 ·8
1. 9	21. 41. 35	5. 30	·1061	1. 44	·00849	1. 40	53 ·0	51 ·2
7. 0	38. 45	7. 20	·1057		·00891	2. 40	53 ·5	51 ·7
13. 25	37. 50	8. 30	·1060	3. 10	·00909	3. 40	54 ·0	51 ·5
13. 30	38. 15	12. 0	·1056	3. 50	·00958	4. 40	54 ·4	52 ·1
15. 41	40. 0	15. 10	·1061	4. 22	·00941	5. 40	54 ·4	52 ·4
16. 32	39. 45	18. 0	·1069	4. 46	·00988	6. 40	54 ·7	52 ·5
16. 42	39. 0	21. 45	·1071	5. 39	·00988	7. 40	55 ·0	52 ·7
20. 10	39. 55	23. 59	·1066	9. 12	·01138	8. 40	55 ·2	52 ·8
21. 55	40. 25			12. 37	·01258	9. 40	55 ·0	53 ·0
22. 23	39. 55			13. 50	·01268	10. 40	55 ·3	53 ·0
23. 59	41. 40			17. 10	·01272	11. 40	55 ·3	53 ·0
				19. 54	·01357	21. 40	56 ·7	56 ·7
				21. 12	·01417			
				23. 48	·01601			
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 0	21. 41. 40	0. 0	·1066	1. 45	·01700	1. 40	50 ·7	49 ·7
0. 58	43. 0	0. 42	·1072	2. 30	·01721	3. 40	51 ·0	50 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
h m	° ′	h m		h m		h m	°	°
2. 26	21. 41. 55	1. 48	·1071	4. 35	·01710	9. 40	48 ·0	49 ·0
3. 13	39. 50	3. 15	·1068	5. 55	·01681	21. 40	42 ·5	43 ·5
5. 58	39. 45	4. 39	·1069	7. 13	·01679			
7. 0	40. 0	4. 47	·1074	8. 40	·01722			
7. 53	41. 50	6. 26	·1078	9. 18	·01776			
8. 15	41. 20	6. 38	·1081	10. 22	·01740			
8. 31	30. 0	6. 54	·1078	14. 0	·01663			
8. 46	26. 0	7. 40	·1082	19. 18	·01616			
9. 15	37. 20	7. 58	·1075	23. 48	·01623			
9. 27	40. 0	8. 10	·1077					
9. 49	41. 40	8. 32	·1073					
10. 5	41. 10	8. 50	·1079					
10. 20	39. 50	9. 6	·1078					
10. 45	40. 20	9. 27	·1064					
11. 5	40. 15	9. 40	·1063					
11. 24	39. 10	9. 49	·1071					
11. 54	39. 50	10. 25	·1067					
12. 40	38. 55	11. 0	·1077					
13. 30	41. 10	11. 16	·1075					
13. 36	38. 0	11. 32	·1077					
14. 0	35. 45	11. 43	·1073					
14. 38	39. 15	12. 2	·1077					
15. 28	38. 0	12. 28	·1077					
16. 3	38. 55	12. 40	·1085					
16. 35	39. 0	13. 0	·1078					
17. 4	38. 35	13. 48	·1084					
17. 15	39. 0	14. 56	·1081					
17. 28	38. 55	15. 2	·1083					
17. 40	41. 50	15. 16	·1081					
17. 58	41. 45	15. 35	·1085					
18. 5	40. 50	15. 55	·1083					
18. 42	41. 50	17. 6	·1084					
19. 40	40. 0	18. 0	·1087					
19. 46	41. 0		***					
20. 5	39. 55	20. 45	·1065					
20. 40	40. 55		***					
21. 20	40. 0	23. 59	·1081					
21. 44	40. 50							
21. 57	40. 0							
22. 7	40. 0							
22. 14	40. 50							
22. 30	39. 55							
22. 35	40. 50							
22. 52	40. 15							
22. 56	41. 25							
23. 8	39. 50							
23. 57	41. 0							
23. 59	40. 55							
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
0. 0	21. 40. 55	0. 0	·1081	0. 0	·01625	1. 40	44 ·5	44 ·5
0. 7	40. 0	0. 26	·1080	2. 16	·01601	3. 40	47 ·0	46 ·5
0. 32	40. 45	0. 38	·1081	3. 9	·01548	9. 40	48 ·5	47 ·5
1. 0	43. 45	2. 11	·1068	4. 26	·01384	23. 16	40 ·0	41 ·8
	***	2. 34	·1066	6. 22	·01086			
2. 43	42. 0	2. 45	·1070	7. 15	·00984			
3. 0	43. 0	3. 25	·1059	8. 20	·00898			
3. 10	41. 40	4. 2	·1061	10. 5	·00819			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 24		Dec. 24		Dec. 24				
h m	° ′	h m		h m			°	°
3. 39	21. 41. 10	4. 17	·1058	14. 28	·00836			
3. 54	42. 0	4. 30	·1066	16. 6	·00928			
4. 12	41. 45	4. 44	·1061	17. 22	·01040			
4. 50	39. 50	4. 56	·1066	22. 48	·01563			
4. 58	40. 20	5. 10	·1062		(†)			
5. 10	40. 0	5. 32	·1064					
5. 30	40. 0	5. 56	·1070					
5. 40	38. 0	6. 11	·1068					
5. 45	38. 0	6. 18	·1072					
6. 0	36. 0	6. 36	·1073					
6. 15	35. 0	6. 46	·1071					
6. 40	39. 40	7. 15	·1073					
8. 20	38. 40	7. 58	·1071					
8. 44	35. 50	8. 33	·1067					
8. 58	36. 0	9. 5	·1072					
9. 15	38. 15	9. 38	·1076					
9. 30	38. 45	9. 50	·1082					
9. 39	32. 20	10. 40	·1076					
10. 8	37. 5	13. 14	·1083					
12. 0	38. 45	13. 30	·1071					
13. 15	40. 40	13. 47	·1086					
13. 27	42. 50	14. 53	·1082					
13. 35	42. 0		***					
13. 58	40. 30	16. 58	·1088					
14. 8	40. 35	17. 45	·1085					
14. 32	39. 45	18. 18	·1083					
14. 54	40. 0	18. 33	·1083					
15. 27	38. 40	19. 16	·1089					
15. 58	40. 50	19. 25	·1084					
16. 27	39. 50	19. 50	·1093					
16. 32	40. 20	20. 15	·1088					
17. 10	39. 50	23. 59	·1085					
17. 30	40. 50							
18. 26	41. 0							
18. 53	42. 5							
19. 15	41. 50							
19. 30	42. 35							
19. 41	41. 15							
20. 3	41. 50							
20. 30	40. 45							
21. 5	41. 0							
21. 54	40. 30							
22. 0	40. 0							
	(†)							
23. 29	41. 0							
23. 35	41. 40							
23. 47	42. 20							
23. 59	42. 5							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	21. 42. 5	0. 0	·1085	0. 0	·01493	10. 3	37 ·2	39 ·0
0. 15	43. 30	0. 46	·1086	1. 13	·01480	21. 40	36 ·2	38 ·1
0. 55	43. 5	1. 11	·1089	2. 16	·01497			
1. 20	45. 25	1. 26	·1085	2. 18	·01481			
2. 3	45. 0	2. 9	·1082	3. 1	·01463			
2. 34	42. 0	2. 33	·1088	3. 26	·01450			
2. 45	42. 25	2. 57	·1088	4. 40	·01456			
3. 2	42. 0	3. 39	·1080	9. 48	·01397			
3. 27	42. 55	4. 40	·1089	11. 17	·01383			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 25		Dec. 25		Dec. 25				
h m	° ′ ″	h m		h m		h m	°	°
4. 3	21. 40. 20	5. 55	·1087	13. 30	·01498			
4. 57	42. 10	7. 10	·1091	15. 36	·01521			
5. 10	41. 30	7. 54	·1091	17. 10	·01530			
5. 25	42. 0	8. 16	·1094	18. 52	·01506			
5. 45	41. 35	8. 29	·1102	22. 12	·01494			
5. 50	41. 50	8. 35	·1102	23. 59	·01506			
6. 12	40. 40	9. 0	·1093					
6. 42	40. 45	10. 30	·1087					
7. 0	40. 0	11. 0	·1093					
7. 11	40. 20	11. 28	·1091					
7. 30	39. 0	11. 34	·1100					
7. 57	39. 25	12. 15	·1098					
8. 7	38. 0	12. 29	·1093					
8. 25	34. 30	13. 10	·1096					
8. 33	34. 15	13. 40	·1092					
8. 58	39. 15	14. 18	·1095					
9. 14	39. 10	15. 15	·1094					
9. 37	40. 20	15. 50	·1096					
10. 30	39. 40	16. 44	·1092					
10. 59	40. 0	17. 7	·1096					
11. 15	39. 5	19. 34	·1101					
11. 58	40. 30	20. 25	·1096					
12. 14	34. 15	21. 6	·1093					
12. 40	41. 50		(†)					
13. 43	40. 5							
14. 0	40. 40							
14. 15	40. 10							
15. 28	41. 0							
15. 50	40. 50							
16. 29	43. 15							
16. 45	41. 40							
17. 0	42. 5							
17. 30	40. 40							
19. 55	40. 35							
20. 20	41. 10							
21. 10	41. 0							
	(†)							
21. 40	41. 50*							
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
0. 3	21. 43. 40	0. 0	·1084	0. 8	·01346	1. 40	38 ·0	39 ·5
1. 5	44. 0	0. 56	·1089	2. 10	·01277	3. 40	40 ·0	41 ·5
1. 27	43. 0	1. 24	·1074	3. 38	·01181	9. 40	42 ·0	43 ·0
1. 52	44. 45	2. 56	·1080	4. 50	·01078	21. 40	38 ·5	41 ·1
2. 57	40. 40	3. 57	·1078	7. 30	·00780			
5. 30	39. 40	4. 40	·1076	9. 6	·00659			
7. 0	40. 30	7. 0	·1081	10. 52	·00581			
9. 27	39. 35	7. 35	·1081	15. 12	·00608			
12. 30	40. 40	8. 5	·1082	20. 58	·00736			
13. 40	40. 50	12. 35	·1085	22. 56	·00818			
13. 58	41. 30	12. 45	·1087	23. 51	·00830			
14. 40	40. 20	13. 9	·1085					
18. 40	41. 0	13. 23	·1089					
21. 4	40. 40	13. 40	·1085					
23. 59	41. 40	14. 27	·1090					
		17. 10	·1092					
		20. 40	·1090					
		23. 59	·1077					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 27		Dec. 27		Dec. 27		Dec. 27		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 41. 40	0. 0	·1077	0. 0	·00819	1. 40	40 ·0	41 ·0
0. 24	43. 0	2. 50	·1081	1. 0	·00834	3. 40	41 ·	41 ·5
1. 54	42. 0	3. 5	·1079	2. 20	·00827	9. 40	39 ·9	41 ·2
2. 36	40. 40	3. 57	·1082	3. 43	·00777	23. 25	32 ·	34 ·0
7. 24	39. 35	4. 35	·1080	6. 45	·00616			
10. 55	40. 0	6. 48	·1087	7. 59	·00580			
14. 16	41. 10	7. 2	·1086	9. 38	·00616			
16. 7	41. 40	7. 16	·1088	10. 55	·00670			
18. 24	41. 0	7. 40	·1087	14. 30	·00906			
20. 20	40. 35	7. 50	·1090	20. 20	·01443			
21. 5	40. 30	8. 27	·1086	23. 12	·01440			
21. 13	41. 0	9. 38	·1090		·01316			
21. 28	40. 40	10. 0	·1088	23. 54	·01358			
22. 42	42. 0	11. 45	·1095					
23. 10	41. 50	11. 50	·1094					
23. 54	42. 50	14. 8	·1100					
		15. 5	·1095					
		15. 30	·1098					
		18. 40	·1104					
		21. 5	·1103					
		21. 18	·1104					
		21. 30	·1101					
		22. 32	·1101					
		23. 0	·1103					
		23. 59	·1100					
Dec. 28		Dec. 28		Dec. 28		Dec. 28		
0. 1	21. 42. 45	0. 0	·1101	0. 45	·01361	8. 55	31 ·8	34 ·0
1. 3	43. 10	1. 24	·1108	2. 6	·01384	12. 40	33 ·3	34 ·8
1. 40	42. 35	2. 0	·1104	4. 21	·01390	13. 40	33 ·4	34 ·8
2. 9	41. 50	2. 45	·1103	8. 30	·01384	14. 40	33 ·6	35 ·0
3. 24	41. 25	3. 40	·1091	14. 10	·01249	15. 40	33 ·0	34 ·7
3. 41	44. 5	4. 25	·1092	14. 40	·01184	16. 40	33 ·0	35 ·0
4. 28	42. 0	4. 34	·1097	15. 58	·01198	17. 40	33 ·2	35 ·2
4. 38	43. 15	5. 14	·1099	17. 24	·01190	18. 40	33 ·3	35 ·5
5. 0	42. 0	6. 4	·1092	20. 10	·01112	19. 40	33 ·5	36 ·0
6. 5	42. 0	6. 22	·1087	21. 26	·01098	20. 40	34 ·2	36 ·1
6. 30	39. 25	6. 44	·1090	22. 44	·01010	21. 40	34 ·1	36 ·3
7. 1	42. 45	7. 3	·1083	23. 59	·00898	22. 40	36 ·2	36 ·4
7. 20	39. 30	7. 27	·1087			23. 40	38 ·0	37 ·2
7. 32	40. 0	7. 45	·1083					
7. 50	37. 0	8. 10	·1085					
8. 6	35. 40	8. 27	·1083					
8. 30	38. 30	8. 40	·1084					
8. 53	37. 50	9. 28	·1077					
9. 2	35. 50	10. 4	·1077					
9. 30	35. 0	10. 14	·1081					
9. 54	37. 45	10. 32	·1081					
10. 6	37. 5	10. 43	·1080					
10. 27	37. 40	11. 10	·1080					
10. 35	38. 40	11. 35	·1091					
10. 54	38. 5	12. 16	·1087					
11. 22	31. 35	12. 43	·1089					
11. 33	36. 0	13. 10	·1087					
12. 0	39. 0	13. 38	·1091					
13. 20	42. 0	13. 50	·1102					
13. 37	52. 0	14. 14	·1109					
14. 1	41. 0	14. 32	·1095					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 28		Dec. 28						
h m	° ′ ″	h m		h m		h m	°	°
14. 27	21. 40. 5	14. 48	·1093					
15. 40	42. 50	14. 57	·1095					
16. 2	41. 50	15. 15	·1095					
16. 32	43. 30	16. 32	·1102					
16. 45	42. 30	16. 35	·1098					
17. 0	44. 0	17. 12	·1109					
17. 29	44. 5	17. 29	·1103					
17. 54	46. 45	17. 48	·1112					
18. 15	46. 10	18. 6	·1106					
18. 27	47. 25	18. 55	·1105					
18. 55	48. 30	19. 5	·1111					
19. 15	46. 0	19. 27	·1104					
19. 35	46. 50	19. 33	·1092					
20. 44	45. 0	19. 47	·1102					
21. 10	44. 15	20. 30	·1086					
21. 30	46. 0	21. 40	·1079					
22. 31	46. 45	22. 26	·1080					
		22. 35	·1078					
				Dec. 29		Dec. 29		
					(†)	0. 40	39 ·0	38 ·8
				1. 31	·00717	1. 40	41 ·5	39 ·0
				2. 6	·00670	2. 40	43 ·5	39 ·5
				3. 13	·00738	3. 40	44 ·0	41 ·5
				4. 48	·00797	4. 40	45 ·5	42 ·6
				6. 40	·00822	5. 40	46 ·0	43 ·0
				7. 12	·00858	6. 40	44 ·8	42 ·2
				7. 42	·00823	7. 40	45 ·0	42 ·5
				11. 33	·00842	8. 40	45 ·5	43 ·0
				12. 5	·00839	9. 40	45 ·5	44 ·0
				12. 52	·00847	10. 40	46 ·0	44 ·3
				15. 0	·00815	11. 40	46 ·0	44 ·5
				15. 40	·00776	21. 40	42 ·5	44 ·0
				16. 24	·00785			
				18. 41	·00820			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
				Dec. 29				
				h m		h m	°	°
				19. 14	·00856			
				19. 45	·00823			
				22. 50	·00879			
				23. 59	·00880			
				Dec. 30		Dec. 30		
				0. 24	·00860	1. 40	47 ·5	46 ·0
				1. 28	·00818	3. 40	49 ·5	48 ·0
					·00877	9. 40	49 ·2	49 ·0
				4. 55	·00940	21. 40	47 ·0	48 ·0
				7. 29	·00977			
				7. 39	·01043			
				8. 54	·00996			
				11. 29	·00912			
					·00968			
				15. 0	·00919			
				21. 22	·00986			
				23. 54	·01005			
				Dec. 31		Dec. 31		
					(†)	1. 40	50 ·0	49 ·0
				1. 28	·01088	3. 40	51 ·1	50 ·8
				5. 37	·01098	9. 40	..	51 ·5
				5. 43	·01221	21. 40	50 ·0	52 ·0
				6. 39	·01195			
				7. 28	·01227			
				10. 0	·01275			
				11. 5	·01296			
				14. 8	·01403			
				15. 47	·01430			
				16. 58	·01438			
				19. 50	·01433			
				21. 32	·01476			
				23. 4	·01445			
				23. 50	·01364			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

December 29. The annual examination of the adjustments of the Declination and Horizontal Force Magnets was commenced.

ROYAL OBSERVATORY, GREENWICH.

NOTE

ON THE

OBSERVATIONS

OF THE

MAGNETIC DIP.

1856.

During the year 1856, Observations of the Magnetic Dip were taken weekly, usually with the needle A_1, as in several years past.

In the Spring of the year 1857, upon a careful examination of the needles and their mounting, defects were discovered which tended to throw great doubt on the accuracy of the results for Dip through several years. In the first place, it was found that, upon raising the pivots from their agate bearings, the upper end of the needle came in contact with the interior of the graduated circle, and there seemed to be evidence that it had sometimes struck with considerable force. The effect of this would be to create and to increase unsteadiness in the connexion of the axis with the needle, and in all cases so to disturb the relative position that the apparent Dip would be increased. In the second place, the different parts of the apparatus interfered with each other in such a way that it was difficult to clean the agates properly; and this would introduce irregularities.

Under all circumstances, it appeared best to suppress the observations of Dip for the year 1856.

It is to be feared that the results given by the observations of some years past are too great by several minutes.

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1856.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The Magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formulæ of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion, when the Deflecting Magnet is in the Axial Position, is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m X$ given by the vibration determines the value of X.

ABSTRACT of the OBSERVATIONS of DEFLEXION of a MAGNET for ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1856.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.	Observer.
		ft. in.	°	′ ″	s		°	
January 23	Lateral	1. 0	51·2	9. 22. 22·88	5·777	100	52·2	J C
	Axial.....			4. 57. 52·26				
	Lateral	1. 6		2. 46. 15·27				
	Axial.....			1. 25. 44·11	5·780	100		
February 15	Lateral	1. 0	49·9	9. 13. 3·66			51·8	J C
	Axial.....			4. 59. 9·49				
	Lateral	1. 6		2. 45. 29·27				
	Axial.....			1. 24. 46·60				
March 31	Lateral	1. 0	55·7	9. 22. 16·71	5·728	100	59·1	H C
	Axial.....			5. 0. 38·94				
	Lateral	1. 6		2. 49. 57·28				
	Axial.....			1. 22. 43·23	5·741	100		
May 20	Lateral	1. 0	63·4	9. 7. 21·25	5·710	100	68·5	H C
	Axial.....			5. 0. 18·32				
	Lateral	1. 6		2. 42. 29·27				
	Axial.....			1. 25. 31·38	5·724	100		
June 9	Lateral	1. 0	68·0	9. 7. 54·19	5·762	100	70·2	H C
	Axial.....			4. 59. 58·46				
	Lateral	1. 6		2. 39. 41·10				
	Axial.....			1. 24. 26·87	5·785	96		
July 1	Lateral	1. 0	63·0	9. 12. 57·40	5·765	100	67·0	H C
	Axial.....			4. 57. 48·32				
	Lateral	1. 6		2. 37. 9·06				
	Axial.....			1. 19. 27·26	5·741	100		
August 16	Lateral	1. 0	73·8	9. 7. 26·49	5·765	100	77·8	H C
	Axial.....			5. 5. 28·82				
	Lateral	1. 6		2. 38. 50·03				
	Axial.....			1. 17. 20·69	5·782	100		
Sept. 12	Lateral	1. 0	69·3	9. 17. 40·95	5·762	100	71·0	H
	Axial.....			4. 52. 35·12				
	Lateral	1. 6		2. 39. 37·38				
	Axial.....			1. 23. 31·84	5·771	100		
October 14	Lateral	1. 0	58·1	9. 15. 18·64	5·704	100	59·4	H C
	Axial.....			4. 44. 2·49				
	Lateral	1. 6		2. 38. 24·53				
	Axial.....			1. 22. 46·07	5·745	100		
November 7	Lateral	1. 0	47·8	9. 12. 28·66	5·770	100	48·8	H C
	Axial.....			4. 52. 16·10				
	Lateral	1. 6		2. 38. 18·88				
	Axial.....			1. 25. 13·72	5·772	100		
December 11	Lateral	1. 0	49·9	8. 48. 59·40	5·724	100	50·4	H C
	Axial.....			4. 52. 42·87				
	Lateral	1. 6		2. 37. 31·34				
	Axial.....			1. 18. 44·48	5·788	100		

February 15. The determination of the time of vibration was inadvertently omitted. The time used in the calculation is 5ˢ·757.

The initials J C and H C are those of Mr. James Carpenter and Mr. Henry Criswick, supernumerary assistants attached to this department.

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1856.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Value of b $-0{\cdot}00100$ as applicable to all.	Log. $\frac{1}{2}a$ = Log. $\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.
January 23	+0·16339	−0·00053		0·08225	0·00429	+0·16292	8·91328	5·774	0·06559	3·768	0·309
February 15	+0·16417	−0·00398		0·08027	0·00664	+0·16069	8·90731	5·757	0·06815	3·806	0·307
March 31	+0·16995	−0·00712		0·07629	0·01105	+0·16375	8·91546	5·735	0·07147	3·784	0·311
May 20	+0·16019	−0·00164		0·08133	0·00591	+0·15876	8·90209	5·717	0·07420	3·855	0·308
June 9	+0·15513	+0·00357		0·07949	0·00766	+0·15824	8·90068	5·774	0·06559	3·823	0·304
July 1	+0·14949	+0·01067	+0·00274	0·07118	0·01534	+0·15968	8·90222	5·753	0·06875	3·830	0·306
August 16	+0·15373	+0·00484		0·06567	0·02307	+0·15796	8·89991	5·774	0·06558	3·827	0·304
September 12	+0·15277	+0·00874		0·07958	0·00543	+0·16039	8·90632	5·767	0·06664	3·802	0·307
October 14	+0·15117	+0·00966		0·08022	0·00231	+0·15960	8·90437	5·725	0·07299	3·840	0·308
November 7	+0·15166	+0·00836		0·08266	0·00226	+0·15896	8·90264	5·771	0·06604	3·817	0·305
December 11	+0·15565	−0·00238		0·07118	0·01386	+0·15358	8·88776	5·756	0·06830	3·893	0·301

The value of b employed in the reductions, namely, $-0{\cdot}00100$, is found from the observations taken between 1855, January, and 1857, May.

VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE, from OBSERVATIONS of VIBRATION of the DEFLECTING MAGNET $\frac{D}{XX}$, unaccompanied by DEFLEXION.

Month and Day, 1856.		Adopted Time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.	Observer.
March	25	5·740	41·7	0·07072	0·311	3·784	H C
April	11	5·772	56·2	0·06589	0·310	3·754	H C
	18	5·666	57·5	0·08199	0·310	3·896	N
	18	5·717	57·6	0·07420	0·310	3·827	H C
	21	5·738	57·0	0·07102	0·310	3·799	N
	22	5·756	56·6	0·06830	0·310	3·775	H
	30	5·760	47·0	0·06770	0·309	3·782	N
May	2	5·780	46·4	0·06468	0·309	3·756	N
	23	5·720	61·5	0·07375	0·308	3·848	H C
June	9	5·760	64·0	0·06769	0·304	3·844	H C
	30	5·817	74·0	0·05914	0·306	3·745	N
July	2	5·740	59·7	0·07072	0·306	3·846	N
	4	5·751	68·0	0·06905	0·306	3·831	N
	9	5·750	61·7	0·06920	0·306	3·833	N
	15	5·754	69·0	0·06860	0·306	3·827	N
	25	5·755	70·0	0·06845	0·305	3·838	N
	29	5·744	75·5	0·07011	0·305	3·853	N
August	13	5·761	80·0	0·06754	0·304	3·843	N
	28	5·775	65·0	0·06544	0·305	3·812	N
October	1	5·775	64·0	0·06544	0·307	3·787	N
November	4	5·761	43·5	0·06754	0·306	3·818	N
	8	5·758	45·0	0·06800	0·305	3·834	N

The number of vibrations employed in each determination was 100.

The initials H and N are those of Mr. Edward John Hallam and Mr. William Carpenter Nash, supernumerary assistants attached to this department.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1856.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays, and on Good Friday and Christmas Day, on which days fewer observations have been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II. (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading, by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the highest temperature of the air, and the highest state of the wet-bulb thermometer, are mercurial thermometers invented by Messrs. Negretti and Zambra, and described in the *Results of Meteorological Observations*, 1851, Introduction, page (xcvi); and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they are self-registering. The readings given are corrected for index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

A mean daily reading of the dry thermometer is inferred from the mean of observations taken at the same hours as the observations of the barometer, corrected by a quantity given in the *Phil. Trans.*, 1848, part I. Another mean daily reading is inferred from the mean of the maximum and minimum thermometers, also corrected by a small quantity given in the same paper. The mean daily value given in the tables is found by combining these two corrected means, giving them weights proportional to the number of observations from which they are respectively derived.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from the comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, from the year 1840 to the end of the year 1854).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·1	32	3·3	44	2·2	56	2·0	68	1·8	80	1·7
21	7·9	33	3·0	45	2·2	57	1·9	69	1·8	81	1·7
22	7·6	34	2·8	46	2·1	58	1·9	70	1·8	82	1·7
23	7·3	35	2·6	47	2·1	59	1·9	71	1·8	83	1·7
24	6·9	36	2·5	48	2·1	60	1·9	72	1·8	84	1·7
25	6·5	37	2·4	49	2·1	61	1·9	73	1·8	85	1·7
26	6·1	38	2·4	50	2·1	62	1·9	74	1·7	86	1·7
27	5·6	39	2·3	51	2·0	63	1·9	75	1·7	87	1·6
28	5·1	40	2·3	52	2·0	64	1·9	76	1·7	88	1·6
29	4·6	41	2·3	53	2·0	65	1·8	77	1·7	89	1·6
30	4·2	42	2·2	54	2·0	66	1·8	78	1·7	90	1·6
31	3·7	43	2·2	55	2·0	67	1·8	79	1·7		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. They are read at 21^h (9^h A.M.) every day; their readings are placed opposite to the day preceding the civil day on which the scales are actually read. The thermometer for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction: it is read at 9^h P.M. every evening.

The thermometer for the minimum temperature on the grass was out of order from January 9 to January 12; from January 28 to January 31; February 10, 11, 12; March 20; April 7; May 21; July 4, 6; and from August 29 to September 5.

The thermometer for the maximum temperature in the sun was out of order on May 1; and from November 2 to November 6.

The thermometer for the minimum temperature of the water of the Thames was out of order from September 13 to September 27.

The mean daily value of the difference between dew-point temperature and air-temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, or they are found from the absolute maxima and minima, as determined by comparing the observations of the self-registering wet-bulb thermometers with those of the self-registering dry-bulb thermometers.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of thirty-eight years, is found by comparison with a table of results deduced by Mr. Glaisher from thirty-eight years' observations, made at the Royal Observatory, ending 1851.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary :—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given :—

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described : thus, s s is very strong ; v v, very variable.

The Clouds and Weather are described generally by Howard's Nomenclature ; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows :—

a denotes *aurora borealis*	hl denotes *hail*			shs-r denotes *showers of rain*		h-sqs denotes *heavy squalls*	
ci .. *cirrus*	so-ha .. *solar halo*			c-r .. *continued rain*		fr-h-sqs .. *frequent heavy squalls*	
ci-cu .. *cirro-cumulus*	l .. *lightning*			c-h-r .. *continued heavy rain*		sc .. *scud*	
ci-s .. *cirro-stratus*	li-cl .. *light clouds*			m-r .. *misty rain*		li-sc .. *light scud*	
cu .. *cumulus*	lu-co .. *lunar corona*			fr-m-r .. *frequent misty rain*		sl .. *sleet*	
cu-s .. *cumulo-stratus*	lu-ha .. *lunar halo*			sl-r .. *slight rain*		sn .. *snow*	
d .. *dew*	m .. *meteor*			h-shs .. *heavy showers*		sl-sn .. *slight snow*	
h-d .. *heavy dew*	ms .. *meteors*			fr-shs .. *frequent showers*		s .. *stratus*	
f .. *fog*	n .. *nimbus*			fr-h-shs .. *frequent heavy showers*		t .. *thunder*	
th-f .. *thick-fog*	r .. *rain*			li-shs .. *light showers*		t-s .. *thunder storm*	
fr .. *frost*	th-r .. *thin rain*			oc-shs .. *occasional showers*		v .. *variable*	
gt-glm *great gloom*	oc-r .. *occasional rain*			sq .. *squall*		w .. *wind*	
h-fr .. *hoar frost*	fr-r .. *frozen rain*			sqs .. *squalls*		st-w .. *strong wind*	
h .. *haze*	h-r .. *heavy rain*			fr-sqs .. *frequent squalls*			

The foot notes show the means and extremes of readings, and their departure in each month from average values, as found from the preceding Sixteen Years Observations ; those relating to Humidity have been calculated from the Second Edition of Glaisher's Hygrometrical Tables.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames at Greenwich by Self-Registering Thermometers read at 9h A.M. next morning. Highest.	In the Water of the Thames at Greenwich by Self-Registering Thermometers read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 58 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air in each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
Jan. 1	..	29·745	42·3	33·0	39·1	38·6	43·5	27·3	42·4	40·5	0·5	2·2	0·0	+ 2·6	SSE	S	0·0	0·0	0·0	25	0·00
2	..	29·486	47·0	37·8	42·7	39·6	56·3	31·0	42·4	40·7	3·1	4·8	0·5	+ 6·4	SE	SE	0·0	0·0	0·0	15	0·00
3	..	29·476	48·0	39·1	43·4	41·7	56·0	37·0	42·1	40·7	1·7	4·6	0·2	+ 7·4	S	S	0·0	0·0	0·0	20	0·03
4	..	29·556	45·1	41·3	42·7	39·8	48·5	35·1	42·4	40·7	2·9	3·4	1·7	+ 7·0	SW; S	S	0·0	0·0	0·0	85	0·03
5	..	29·376	48·0	40·8	44·4	43·2	49·0	39·0	42·9	40·7	1·2	3·7	0·9	+ 8·9	S; SE	S	0·0	0·0	0·0	60	0·03
6	..	29·153	47·0	41·5	43·3	42·5	49·0	37·0	43·1	40·7	0·8	1·5	0·0	+ 8·0	SE	E; S	0·0	0·0	0·0	60	0·06
7	First Quarter. New.	28·901	47·0	37·9	41·9	40·4	58·0	33·0	43·9	41·2	1·5	5·3	0·2	+ 6·8	S	E	0·0	0·0	0·0	50	0·03
8	..	28·964	42·0	36·7	39·1	36·5	44·0	33·0	44·1	41·2	2·6	5·1	2·1	+ 4·2	NE	NE	0·0	0·0	0·0	30	0·00
9	..	29·070	39·1	32·5	34·2	34·2	40·0	..	44·1	40·9	0·0	1·3	0·0	— 0·8	E	NE	0·0	0·0	0·0	105	0·80
10	Perigee	29·332	38·8	31·0	34·2	28·6	41·0	..	43·9	40·9	5·6	7·8	2·9	— 0·9	NE	NE	2·5	0·0	0·0	125	0·00
11	..	29·795	32·8	27·0	30·7	26·6	34·5	..	42·9	39·7	1·1	2·1	0·0	— 4·5	NE	NE	0·0	0·0	0·0	95	0·00
12	..	30·307	35·8	28·3	31·7	28·7	43·5	..	41·9	38·2	3·0	3·5	0·7	— 3·6	NE	NE	0·0	0·0	0·0	70	0·00
13	In Equator	30·509	38·0	25·9	31·4	29·1	46·5	15·5	39·0	37·3	2·3	3·8	1·3	— 4·1	NE	Calm	0·0	0·0	0·0	30	0·00
14	First Qr.	30·074	36·0	24·5	29·8	22·2	43·0	15·0	38·0	35·0	7·6	10·8	3·8	— 5·0	E	Calm	1·5	0·0	0·0	50	0·00
15	..	29·829	40·7	24·3	33·2	28·4	48·0	15·5	37·5	35·6	4·8	10·6	2·3	— 2·6	Calm	Calm	0·0	0·0	0·0	145	0·00
16	..	29·813	43·0	35·5	39·4	36·3	46·0	28·0	36·5	35·6	0·1	1·3	0·0	+ 3·4	Calm	Calm; S	0·0	0·0	0·0	120	0·06
17	..	29·435	46·7	38·1	43·3	42·2	45·0	32·0	37·0	35·6	1·1	3·5	0·2	+ 7·1	S; SW	SW	3·3	0·0	0·5	225	0·01
18	..	29·360	50·0	43·1	47·4	45·7	52·0	41·5	38·5	37·0	1·7	2·6	0·2	+ 11·0	SW	SW	3·5	0·0	0·2	165	0·03
19	Greatest Declination S.	29·102	50·0	43·1	46·2	44·0	51·0	39·0	40·5	39·0	2·2	3·6	0·4	+ 9·7	S	S	0·0	0·0	0·0	155	0·05
20	..	28·978	49·0	42·6	45·9	44·8	50·0	39·6	42·5	40·3	1·1	2·5	0·7	+ 9·2	S	S	0·0	0·0	0·0	55	0·16
21	..	28·944	50·9	42·5	47·2	46·1	53·0	36·0	43·1	41·2	1·1	3·2	0·0	+ 10·4	Calm	SW	0·0	0·0	0·0	80	0·32
22	Full	29·273	40·0	36·8	37·9	34·5	48·0	37·0	43·7	41·6	3·4	3·9	1·2	+ 1·8	NNE	N; E	0·0	0·0	0·0	0	0·20
23	..	29·221	52·7	36·5	46·2	41·9	61·0	36·0	44·5	43·0	4·3	9·0	0·5	+ 9·3	SE; SW	SW; S	3·0	0·0	0·5	310	0·00
24	..	28·849	54·0	42·3	47·3	42·0	59·0	40·0	45·0	43·7	5·3	9·9	1·4	+ 10·3	SSW	SW	1·5	0·0	2·0	360	0·06
25	..	29·084	48·7	39·5	43·3	36·0	62·0	36·0	45·5	43·7	7·3	13·7	4·1	+ 6·2	SW	SW	4·0	0·0	0·5	190	0·10
26	Apogee	29·351	49·5	36·1	43·8	40·4	52·0	30·0	44·9	43·7	3·4	7·1	1·5	+ 6·6	SW	SW	0·0	0·0	0·0	80	0·23
27	In Equator	29·638	44·2	36·9	40·5	35·2	52·0	31·5	44·0	43·0	5·3	7·3	3·6	+ 3·2	NW	SW	0·0	0·0	0·0	70	0·00
28	..	29·545	41·8	29·7	35·1	32·5	54·0	..	42·5	41·2	2·6	5·8	1·2	— 2·2	SW	SW	3·0	0·0	0·1	115	0·15
29	..	29·595	35·4	28·7	31·2	26·8	46·5	..	41·5	39·9	4·4	6·2	3·4	— 6·2	SW	NW; SW	0·0	0·0	0·0	25	0·01
30	Last Qr.	29·758	36·5	25·8	31·3	27·2	42·0	..	39·5	38·4	4·1	5·9	1·3	— 6·2	NW; SW	NW; SW	0·0	0·0	0·0	45	0·00
31	..	30·035	36·7	27·9	32·1	28·1	41·0	..	38·0	36·6	4·0	5·9	0·8	— 5·5	SW	NW; W	0·0	0·0	0·0	55	0·00
Means	..	29·468	43·8	35·2	39·3	36·4	48·7	32·4	41·9	40·0	2·9	5·3	1·2	+ 3·1			..	..	..	Sum 3015	Sum 2·36

BAROMETER READINGS.

The first maximum in the month was 29in·817 on the 1st; the first minimum in the month was 28in·854 on the 7th.
The absolute maximum .. was 30in·550 .. 17th; the second minimum .. was 28in·937 .. 20th.
The third maximum .. was 29in·529 .. 22nd; the absolute minimum .. was 28in·830 .. 24th
The fourth maximum .. was 30in·083 .. 31st.
The range in the month was 1in·720.
The mean for the month was 29in·468, being 0in·261 *less* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 54°·0 on the 24th; the lowest was 24°·3 on the 15th; and the range in the month was 29°·7.
The mean .. of all the highest daily readings was 43°·8, being 0°·8 *higher* than the average of the preceding 16 years.
The mean .. of all the lowest daily readings was 35°·2, being 1°·5 *higher* than the average of the preceding 16 years.
The mean daily range was 8°·6, being 0°·8 *less* than the average of the preceding 16 years.
The mean for the month was 39°·3, being 1°·3 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
Jan. 1	s	s	10		8	: 10,
2	s	s	7, li.-cl	: 0	10, ci.-s, r	
3	w	s, sps : w	10, ci.-cu, ci.-s	: 8	10, r	: oc.-r
4	m	m	7		10	: r
5	0	w : 0	10, m.-r		10, m.-r	
6	w	w	10, r		10, r	
7	m	m : s	10, r		7, ci.-cu, li.-cl	: 10
8	0	w : 0	10		7	: 10
9	s, sps, g cur	N, s : w	10, sn, sl, r		v, sn, r	: 10, r
10	w	w	10		10, ci.-cu, ci, ci.-s	
11	s, sps	s	10		10	: v
12	w	s	10	: sl	v, li.-cl.	
13	s	s	7, ci, li.-cl.	: 0	0	: f
14	w	w : s, sps	0		0	: 3, lu.-ha
15	s	s	10, ci.-s	: th.-r	0	
16	s, sps, g cur	s, sps, g cur	10	: m.-r	10	: lu.-ha
17	v	v	10		7	: 10, m.-r
18	v	v	10, m.-r		10, m.-r	: ci-cu, ci.-s, s
19	w	s : w	10, m.-r		7, m.-r	: ci.-s, sc, lu.-cor, r
20	0	0	10		v	
21	0	0	10, m.-r		10, m.-r	
22	0	0	10, r	: 9	10	
23	0	0	10	: ci	5, ci.-cu, ci.-s	: 10. lu.-cor
24	0	0 : s	v, r, st.-w		7	: l, th, h.-r, lu.-cor
25	0	0	0		0	
26	v	v	0		10, r	: oc.-r
27	s	0	10		10	: 0, f
28	v	s N, sps, g cur	7, ci.-s, h.-fr	: 3, cu, ci.-s	7, h,-sh.-r	: v, h.-sqs, r, sn
29	v	v : 0	10, f		0	: 10
30	s	s	10, th.-f		10	: f
31	s	s : s, sps	10, f, h.-f		10	: 7, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 49°·1 on the 24th; and the lowest was 16°·8 on the 14th.
The mean ,, was 36°·4, being 0°·9 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour. The mean for the month was 0^{in}·215, being 0^{in}·010 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·5, being 0^{gr}·1 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 90 (that of Saturation being represented by 100), being 1 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 547 grains, being 6 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 7·6.

WIND.

The proportions were, N. 5, S. 14, W. 7, and E. 5. The greatest pressure in the month was 15^{lbs} on the square foot on the 24th.

RAIN.

Fell on 18 days in the month, amounting to 2^{in}·3 as measured in the simple cylinder gauge, partly sunk below the ground, being 0·3 *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (correct'd and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames at Greenwich by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames at Greenwich by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wind. Wells's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°				lbs.	lbs.	lbs.	miles	in.
Feb. 1	..	30·003	36·0	27·5	32·6	27·5	40·4	25·0	36·8	36·3	5·1	8·1	4·2	— 5·1	SW	W	0·0	0·0	0·0	30	0·00
2	..	29·867	33·2	30·5	32·0	28·7	39·0	22·0	36·5	36·1	3·3	5·1	2·2	— 5·8	NW	Calm	0·0	0·0	0·0	5	0·00
3	Greatest Declination S.	29·977	42·5	30·3	34·9	30·7	58·0	22·0	37·0	36·1	4·2	7·9	0·8	— 2·9	SE	Calm	0·0	0·0	0·0	30	0·00
4	..	29·870	42·8	28·9	35·8	34·2	49·0	19·5	37·3	36·6	1·6	5·3	0·6	— 2·1	Calm	SW	0·0	0·0	0·0	110	0·02
5	..	30·033	49·6	35·9	41·6	38·8	53·0	28·0	37·5	36·6	2·8	7·6	0·7	+ 3·6	Calm	SW ; S	3·0	0·0	0·2	165	0·03
6	New	29·677	50·0	37·1	45·3	42·7	54·0	33·0	40·0	38·4	2·6	5·0	1·9	+ 7·2	S	S	10·0	0·0	2·6	360	0·00
7	Perigee	29·598	54·3	43·1	49·7	48·0	58·0	41·0	43·0	40·3	1·7	4·2	0·0	+ 11·5	SW	SW	6·0	0·0	1·3	280	0·00
8	..	29·901	53·6	47·5	50·2	47·9	57·0	41·0	45·5	41·2	2·3	4·6	1·0	+ 11·9	SW	SW	4·0	0·0	0·3	225	0·14
9	In Equator	29·825	58·0	44·7	50·3	46·2	63·0	39·0	45·5	42·3	3·1	13·8	2·9	+ 12·0	S	SW	2·0	0·0	0·1	200	0·00
10	..	29·841	52·4	46·5	49·4	47·1	54·0	..	46·5	43·3	2·3	4·1	1·7	+ 11·0	SW	S ; SW	0·0	0·0	0·0	90	0·00
11	..	29·751	50·3	44·8	46·7	45·6	55·0	..	47·0	43·9	1·1	2·9	0·6	+ 8·2	S	S ; SW	0·0	0·0	0·0	165	0·23
12	..	29·581	51·2	44·2	48·0	45·9	56·0	..	47·7	45·5	2·1	4·6	0·2	+ 9·4	S	SW	4·0	0·0	0·3	210	0·05
13	First Qr.	29·601	51·6	45·1	48·1	46·6	55·0	40·0	48·5	46·5	1·5	3·4	0·6	+ 9·4	S	S ; SW	3·0	0·0	0·1	230	0·17
14	..	29·628	54·0	42·7	47·5	42·2	64·0	41·0	47·5	46·5	5·3	8·8	1·3	+ 8·7	SW	SW	7·0	0·0	0·3	200	0·10
15	..	29·649	53·2	41·5	46·3	42·5	67·0	39·5	47·3	46·5	3·8	7·6	1·1	+ 7·5	S	S	0·0	0·0	0·0	90	0·00
16	Greatest Declination N.	29·701	52·5	36·3	43·1	40·7	68·5	32·0	46·5	45·5	2·4	8·0	0·0	+ 4·2	S ; SE	E	0·0	0·0	0·0	105	0·00
17	..	29·729	41·5	36·1	37·7	35·5	44·0	34·6	46·3	44·4	2·2	4·0	0·2	— 1·3	E	E	0·0	0·0	0·0	135	0·00
18	..	29·627	38·0	32·9	34·2	31·1	38·0	32·0	45·3	43·0	3·1	4·2	2·5	— 4·9	NE	NE	0·0	0·0	0·0	100	0·01
19	..	29·690	37·0	33·3	34·7	33·7	39·0	32·5	44·3	41·2	1·0	3·6	0·0	— 4·5	NE	NE	0·0	0·0	0·0	105	0·10
20	Full	29·754	38·0	32·3	34·4	29·4	41·0	31·1	41·5	40·3	5·0	6·5	3·0	— 4·9	NE	NE	3·5	0·0	0·3	215	0·00
21	..	29·881	35·8	31·3	33·0	28·8	39·0	31·0	41·0	38·6	4·2	7·8	2·1	— 6·3	NE	NE	5·0	0·0	0·8	145	0·08
22	Apogee	29·877	39·1	29·6	34·9	29·4	47·0	24·1	40·5	38·4	5·5	8·2	3·5	— 4·5	NE ; W	NW ; N	0·0	0·0	0·0	95	0·00
23	In Equator	29·979	50·0	33·3	40·4	35·8	63·0	26·0	40·0	38·4	4·6	9·2	2·6	+ 0·9	Calm	N	0·0	0·0	0·0	65	0·00
24	..	30·303	49·5	36·0	42·3	33·8	62·5	30·0	40·0	38·6	8·5	14·1	4·6	+ 2·7	N	SW	0·0	0·0	0·0	80	0·00
25	..	30·375	47·1	33·3	40·3	34·6	50·0	25·5	40·5	39·5	5·7	9·5	4·8	+ 0·6	SW	SW	0·0	0·0	0·0	185	0·00
26	..	30·233	53·5	41·3	47·8	42·3	55·0	38·5	41·7	40·3	5·5	8·8	3·2	+ 8·0	SW	NW	0·0	0·0	0·0	100	0·00
27	..	30·327	57·0	45·0	48·7	41·3	57·0	37·0	43·0	41·2	7·4	7·9	6·5	+ 8·8	W	W	0·0	0·0	0·0	30	0·00
28	..	30·385	48·6	43·6	44·1	41·0	50·0	43·0	43·5	41·7	3·1	6·2	2·0	+ 4·2	Calm	NE	0·0	0·0	0·0	10	0·00
29	Last Qr.	30·423	53·0	35·9	43·8	36·5	75·5	37·0	44·5	42·1	7·3	13·6	0·0	+ 3·9	NE	E	0·0	0·0	0·0	80	0·00
Means	..	29·899	47·4	37·6	42·0	38·1	53·5	32·5	42·8	41·0	3·8	7·1	1·9	+ 3·1	...	...	..	..	..	3810	0·93

BAROMETER READINGS.

The first minimum in the month was 29in·851 on the 4th.
The first maximum in the month was 30in·056 on the 5th; the absolute minimum ,, was 29in·480 on the 6th.
The second maximum ,, was 29in·934 on the 8th; the second minimum ,, was 29in·537 on the 15th.
The highest reading ,, was 30in·476 on the 29th, the readings still increasing.
The range in the month was 0in·996.
The mean for the month was 29in·891, being 0in·132 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·0 on the 9th; the lowest was 27°·5 on the 1st; and the range in the month was 30°·5.
The mean ,, of all the highest daily readings was 47°·4, being 3°·0 *higher* than the average of the preceding 16 years.
The mean ,, of all the lowest daily readings was 37°·6, being 4°·1 *higher* than the average of the preceding 16 years.
The mean daily range was 9°·8, being 1°·2 *less* than the average of the preceding 16 years.
The mean for the month was 42°·0, being 3°·7 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Feb. 1	s, sps	s, sps	10, f	10
2	w	w	8	10
3	s	s	0	0 : f, r
4	s	s : s, sps	3, cu : 10	10 : r
5	0 : w	0	10, ci.-cu, ci.-s, li.-cl	5, ci.-cu, ci.-s : 10
6	s, sps	s, sps	10, m.-r, st.-w	10, st.-w : li.-sps
7	w : 0	w : 0	10, m.-r	10, th.-r, : v, m.-r
8	s, sps		10, shs.-r	v
9	w	w	10, ci.-cu, s	10, s. ci.-s : v
10	v	v	10	10
11	w	w	10, r	10, r : v
12	w	w	10, sh.-r	10, m.-r : lu.-ha, lu.-co
13	0	0	10, r	10, r : lu.-co
14	s, sps, g cur	m	10, sh.-r	5, cu, ci.-cu, ci.-s : 0
15	m	m	5, cu, ci.-s	5, ci-cu, ci.-s : v, lu.-ha
16	s	s	0, f	0
17	s	s	10	10, th.-r
18	0	w	10, sl	10 : sl
19	0	0	10, sn, r : m. r	10
20	0	0	10,	10
21	0	0 : m	10, sn, sl	10
22	v	v	10, th.-f	10
23	s : w	w : s	10	v, ci.-cu. ci.-s : 10
24	s	s	2, s, f	0
25	s	s	10	10
26	s	s	10	10
27	w	w	10	10
28	w	w	10, m, r	10 : f
29	w	w : s	0 : cu, ci.-cu.	0 : 3

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 49°·7 on the 7th; and the lowest was 24°·9 on the 21st.
The mean ,, was 38°·1, being 3°·5 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0in·230, being 0in·027 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2gr·6, being 0gr·3 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being the same as the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 552 grains, being 1 grain *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 8·4.

WIND.

The proportions were of N. 5, S. 11, W. 8, and E. 5.

RAIN.

Fell on 10 days in the month amounting to 0in·9, as measured in the simple cylinder gauge partly sunk below the ground, being 0in·2 *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer, read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wild-Welsh. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	Greatest Declination S.	30·505	42·4	35·5	39·9	35·5	47·8	25·0	44·5	42·6	4·4	6·4	3·2	— 0·1	NE	NE	0·0	0·0	0·0	80	0·00
2	..	30·441	46·0	40·8	41·9	38·2	50·0	40·0	44·5	43·5	3·7	7·5	3·2	+ 1·9	NE	NE	0·0	0·0	0·0	145	0·00
3	..	30·464	45·1	36·8	40·2	33·3	47·8	30·5	45·5	43·7	6·9	9·7	4·8	+ 0·2	N	NE	0·0	0·0	0·0	130	0·00
4	..	30·404	40·0	35·0	36·8	32·5	43·0	34·9	44·1	43·5	4·3	5·8	3·6	— 3·1	NE	NE	0·0	0·0	0·0	40	0·00
5	..	30·113	44·0	34·0	38·5	33·0	51·0	32·0	43·5	43·0	5·5	10·6	4·8	— 1·3	Calm	NE	0·0	0·0	0·0	95	0·00
6	New	30·040	44·0	35·3	39·2	34·6	54·0	27·0	43·5	43·0	4·6	7·1	2·6	— 0·5	NE	N	0·0	0·0	0·0	70	0·00
7	Perigee	30·194	41·2	32·2	35·9	34·1	45·0	27·0	43·0	42·6	1·8	4·4	1·0	— 3·8	N	Calm	0·0	0·0	0·0	75	0·00
8	In Equator	30·203	46·0	26·0	35·3	34·3	49·0	17·0	43·0	42·0	1·0	6·6	0·0	— 4·6	Calm	Calm	0·0	0·0	0·0	30	0·00
9	..	30·040	42·0	35·7	38·7	36·4	55·5	29·0	42·5	42·1	2·3	3·5	2·1	— 1·5	W	W; N	0·0	0·0	0·0	110	0·00
10	..	29·983	50·0	34·0	40·0	37·2	58·0	24·8	43·0	42·1	2·8	10·3	1·3	— 0·4	W	NE; E	0·0	0·0	0·0	60	0·00
11	..	29·926	42·5	32·0	36·8	29·1	48·0	32·8	42·5	42·1	7·7	12·9	5·6	— 3·9	E	E	0·0	0·0	0·0	85	0·00
12	..	29·865	45·0	26·5	35·2	28·2	62·0	19·0	42·0	41·7	7·0	12·3	4·5	— 5·7	NE	NE; E	3·0	0·0	0·3	195	0·00
13	First Qr.	29·915	42·0	28·5	34·9	23·5	63·0	24·0	42·0	41·2	11·4	17·0	8·7	— 6·3	E	E	6·0	0·0	1·2	220	0·00
14	Greatest Declination N.	30·010	42·8	30·7	35·7	23·1	57·0	26·5	41·5	40·8	12·6	15·2	8·0	— 5·7	NE	E	5·5	0·0	1·0	155	0·00
15	..	30·014	38·0	27·9	33·1	29·5	44·0	26·8	41·3	40·3	3·6	8·4	3·1	— 8·4	E	E	0·0	0·0	0·0	100	0·00
16	..	29·867	47·0	31·1	42·3	37·9	52·0	17·0	40·7	40·3	4·4	6·6	2·2	+ 0·6	E	E; SE	2·5	0·0	0·2	160	0·00
17	..	29·833	45·0	37·0	39·6	38·2	59·0	17·0	40·5	40·3	1·4	3·5	1·4	— 2·2	SE	ESE	0·0	0·0	0·0	85	0·82
18	..	29·717	51·0	39·0	43·8	40·1	55·0	16·5	42·5	41·1	3·7	6·3	2·4	+ 2·0	SE	E; Calm	0·0	0·0	0·0	140	0·30
19	..	29·709	52·0	44·5	46·7	43·1	65·0	16·5	43·5	42·5	3·6	6·3	1·1	+ 4·8	Calm	W; N	0·0	0·0	0·0	130	0·00
20	Apogee	29·846	48·8	41·5	43·6	40·7	58·0	..	44·5	43·0	2·9	5·3	2·6	+ 1·6	N	NE	0·0	0·0	0·0	60	0·00
21	In Equator	29·820	46·0	40·0	42·0	37·4	50·0	34·0	45·0	43·0	4·6	6·8	2·5	— 0·1	W; NE	NE; Calm	0·0	0·0	0·0	40	0·00
22	..	29·969	51·0	34·5	41·8	34·1	65·0	25·0	45·5	43·2	7·7	12·6	6·0	— 0·4	NE	NE	0·0	0·0	0·0	65	0·00
23	..	30·072	49·0	31·9	39·8	34·1	65·0	22·0	45·0	43·7	5·7	10·1	..	— 2·5	NE	NE	0·0	0·0	0·0	45	0·00
24	..	29·996	44·4	35·1	37·7	33·7	50·0	35·0	45·5	43·7	4·0	7·1	3·2	— 4·7	E	SE	0·0	0·0	0·0	60	0·00
25	..	29·816	41·8	35·1	37·9	35·1	45·8	35·3	45·5	43·7	2·8	5·3	1·5	— 4·6	E	E	2·0	0·0	0·2	200	0·00
26	..	29·783	42·0	34·0	36·8	32·9	50·4	35·5	45·0	43·7	3·9	6·2	1·4	— 5·9	E	NE	3·5	0·0	0·6	90	0·00
27	..	29·781	51·0	31·7	40·4	31·4	70·0	21·9	44·5	43·4	9·0	13·9	8·4	— 2·4	NE	E	2·5	0·0	0·2	90	0·00
28	..	29·821	45·0	26·0	35·9	28·1	68·0	13·5	44·0	43·2	7·8	11·9	5·0	— 7·1	NE	E	0·0	0·0	0·0	125	0·00
29	Greatest Dec. S. Last Quarter	30·085	43·0	29·5	35·6	24·0	70·0	13·5	43·5	43·0	11·6	14·1	1·8	— 7·6	E	E	3·5	0·0	0·8	100	0·00
30	..	30·115	51·0	24·7	37·4	26·6	75·0	8·5	43·5	43·0	10·8	17·9	7·1	— 5·9	ENE	E	0·0	0·0	0·0	35	0·00
31	..	29·987	58·0	24·7	42·3	28·0	80·0	10·5	44·5	43·2	14·3	26·2	8·7	— 1·1	E	SE	0·0	0·0	0·0	50	0·00
Means	..	30·011	45·7	33·3	38·9	33·1	56·5	24·5	43·5	42·5	5·7	9·6	3·7	— 2·5	...	...				Sum. 306·3	Sum 1·29

BAROMETER READINGS.

The absolute maximum in the month was 30in·527 on the 1st; the first minimum in the month was 30in·030 on the 6th.

The second maximum ,, was 30in·249 on the 7th; the absolute minimum ,, was 29in·668 on the 19th.

The third maximum .. was 30in·144 on the 30th.

The range in the month was 0in·859; the mean for the month was 30in·011 being 0in·205 higher than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·0 on the 31st; the lowest was 24°·7 on the 30th; and the range in the month was 33°·3.

The mean ,, of all the highest was 45°·7, being 4°·0 *lower* than the average of the preceding 16 years.

The mean ,, of all the lowest was 33°·3, being 1°·7 *lower* than the average of the preceding 16 years.

The mean daily range was 12°·4, being 2°·2 *less* than the average of the preceding 16 years.

The mean for the month was 38°·9, being 2°·7 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	w	w	10	10
2	m	m	10	10
3	m	m	7 : 10	10
4	w	w	10	10
5	w	w : s	10	10
6	m	m	10, m.-r	10 : 7, li.-cl
7	s	s : s, sps	10 : th.-r	10
8	v	v	10, th.-f	10 : 9
9	s P, s N, sps	s P, s N, sps	10	10, h
10	s	s	9, f	9 : f
11	s	s	10	10 : v, s
12	w	w	0, h : 10, cu, cu.-s.	10, ci.-s
13	w	w : s	0 : st.-w	0 : 10, , lu.-co, lu.-ha
14	w	w	8, cu.-s, ci.-s, s : st.-w	3, ci.-cu : 0
15	o	o : w	10	10
16	o	o	10, s	10 : h-r
17	o	o	10, r	10 : sc
18	o	o	10, th.-r	10 : oc.-shs
19	o	o	10, r : 9, s, ci.-s, li.-cl	10 : f
20	o	o	10, gt.-glm : th.-r	7 : 10, m.-r
21	o	o	10, r, th.-f	10, s, ci.-s, shs.-r : lu.-co
22	o	o	10, s, ci.-s : 7, cu, cu.-s, ci.-s	10 : f
23			5	5, ci.-cu : 10
24			10, h.-r	10
25			10	10 : st.-w
26			10	10 : o
27			5 cu, s	9, s, ci.-s : o
28			9 : 10	10
29			3, cu, ci	o
30			o	o
31			o	o : h

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 44°·9 on the 19th; and the lowest was 22°·6 on the 13th.
The mean ,, was 33°·1, being 3°·2 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0in·188, being 0in·028 *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2gr·2, being 0gr·5 *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 81 (that of Saturation being represented by 100), being 1 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 558 grains, being 7 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 8·0.

WIND.

The proportions were of N. 8, S. 2, W. 3, and E. 18.

RAIN.

Fell on 6 days in the month, amounting to 1in·2, as measured in the single cylinder gauge partly sunk below the ground, being 0in·1 *greater* than the average fall of the preceding 16 years.

From March 23 the electrical apparatus was under repair.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit)	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 28 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's Horizontal Movement of the Air each Day. Amount.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
April 1	..	29·859	66·8	33·3	50·3	35·2	81·2	16·0	45·5	43·7	15·1	20·9	14·7	+ 6·7	SE	S; SE	0·0	0·0	0·0	190	0·00
2	..	29·697	64·8	44·0	53·2	40·2	79·0	30·5	46·3	44·0	13·0	23·8	4·2	+ 9·3	SE	S; SW	2·0	0·0	0·1	195	0·00
3	..	29·723	56·5	42·2	48·3	44·8	78·0	31·1	47·3	44·9	3·5	7·6	3·1	+ 4·4	SW	S	6·0	0·0	2·3	300	0·05
4	Perigee In Equator	29·680	58·2	42·0	47·8	38·8	79·0	39·0	48·7	45·5	9·0	17·2	3·3	+ 3·8	SW	SW; S	5·0	0·0	0·6	190	0·00
5	New	29·371	55·0	36·3	45·3	37·2	79·0	29·8	49·5	46·5	8·1	15·0	2·6	+ 1·1	S; SSE	SSE	3·0	0·0	0·3	235	0·04
6	..	29·162	53·0	37·0	42·3	38·2	80·0	33·5	50·5	46·9	4·1	8·6	3·8	— 2·1	SW	SW; Calm	0·0	0·0	0·0	165	0·10
7	..	29·363	56·2	36·0	45·3	37·6	76·5	..	50·7	47·3	7·7	16·4	2·6	+ 0·8	SW	W; S	0·0	0·0	0·0	150	0·00
8	..	29·129	51·3	41·0	46·0	42·0	76·8	31·0	50·5	47·3	4·0	6·3	2·5	+ 1·3	SE	S; W	3·0	0·0	0·3	250	0·02
9	..	29·170	56·8	37·5	45·1	39·6	78·0	29·8	50·5	47·8	5·5	10·2	4·0	+ 0·3	SW	W; SW	2·5	0·0	0·2	185	0·25
10	Greatest Declination N	29·150	60·0	46·0	49·9	45·3	70·0	37·0	50·5	48·2	4·6	11·4	0·2	+ 4·9	SE; SW	S	3·0	0·0	0·5	290	0·12
11	..	29·521	57·0	44·0	50·2	44·6	69·0	35·8	51·5	49·2	5·6	12·5	2·2	+ 3·1	S	SE	2·0	0·0	0·1	230	0·04
12	First Qr.	29·411	61·1	46·0	51·1	43·3	78·0	47·0	52·5	49·7	7·8	15·4	2·9	+ 5·8	SE; SW	SW	3·0	0·0	0·5	210	0·04
13	..	29·517	65·0	41·4	52·9	42·6	80·3	32·5	53·0	50·2	10·3	17·3	4·4	+ 7·4	SW	Calm	0·0	0·0	0·0	25	0·00
14	..	29·659	56·0	40·0	46·8	43·5	60·0	30·3	53·1	50·2	3·3	10·2	1·3	+ 1·1	NE	NE	5·5	0·0	0·8	260	0·06
15	..	29·804	56·0	40·2	46·5	35·7	68·5	42·9	53·5	50·5	10·8	17·6	5·3	+ 0·6	NE	NE	9·6	0·0	2·5	135	0·11
16	..	29·983	53·2	37·0	43·8	32·3	73·6	32·0	52·5	49·2	11·5	17·6	4·5	— 2·2	NE	N	5·0	0·0	1·0	120	0·00
17	Apogee	30·002	54·1	32·0	42·8	32·8	73·0	28·6	51·5	48·5	10·0	16·6	8·3	— 3·5	N	NE	3·0	0·0	0·3	115	0·00
18	In Equator	29·964	59·5	39·5	46·5	36·9	83·5	37·0	51·5	48·3	9·6	17·2	4·8	0·0	N	E	0·0	0·0	0·0	40	0·00
19	..	30·062	50·3	37·0	42·6	36·9	60·5	29·9	51·0	48·3	5·7	12·4	3·9	— 4·2	E	NE	0·0	0·0	0·0	55	0·00
20	Full	30·138	57·8	34·0	43·9	35·6	83·0	25·5	51·3	48·5	8·3	17·5	4·5	— 3·1	E	NE	0·0	0·0	0·0	50	0·00
21	..	30·056	63·4	30·6	46·1	34·8	88·0	19·9	51·7	48·8	11·3	21·9	4·8	— 1·2	NE	E	0·0	0·0	0·0	20	0·00
22	..	29·876	56·1	37·7	46·6	34·0	69·0	23·5	51·0	49·2	12·6	17·2	8·3	— 0·9	E	SE	0·0	0·0	0·0	35	0·00
23	..	29·764	58·0	30·9	46·3	36·4	81·0	20·9	51·7	49·2	9·9	16·0	5·2	— 1·5	SE	SE	0·0	0·0	0·0	20	0·00
24	..	29·740	57·6	37·0	46·7	42·1	80·4	26·8	52·5	49·4	4·6	10·8	2·6	— 1·5	SE	E	0·0	0·0	0·0	50	0·00
25	Greatest Declination S.	29·493	73·0	39·0	56·0	43·2	93·5	28·3	53·5	50·5	12·8	22·3	1·4	+ 7·5	E	E; S	0·0	0·0	0·0	115	0·00
26	..	29·357	62·7	46·8	53·6	43·8	81·8	44·0	54·2	50·9	9·8	17·1	3·4	+ 4·8	SW	SW	4·8	0·0	0·8	70	0·27
27	Last Qr.	29·371	46·0	38·0	40·2	39·5	52·5	40·0	53·8	50·9	0·7	3·7	0·0	— 9·0	NE	N	3·0	0·0	0·5	150	0·60
28	..	29·432	51·1	35·0	43·2	32·9	77·0	25·0	54·9	50·9	10·3	14·9	7·7	— 6·3	N	N; W	0·0	0·0	0·0	40	0·00
29	..	29·467	52·0	31·0	41·7	34·8	57·0	21·9	53·1	50·4	6·9	13·8	5·9	— 8·2	NW	NW	0·0	0·0	0·0	45	0·00
30	..	29·517	53·5	37·2	42·3	35·6	77·0	29·8	52·5	50·0	6·7	12·0	1·4	— 8·0	Calm	W; Calm	1·5	0·0	0·0	40	0·07
Means	..	29·614	57·4	38·2	46·8	38·7	75·4	31·0	51·3	48·5	8·1	14·7	4·1	+ 0·4	...	...	..	..	..	sum 3975	sum 1·77

BAROMETER READINGS.

The absolute minimum in the month was 29in·049 on the 10th.

The absolute maximum in the month was 30in·172 on the 20th; the second minimum ,, was 29in·331 on the 26th.

The second maximum ,, was 29in·529 on the 30th.

The range in the month was 1in·123. The mean for the month was 29in·614, being 0in·129 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 73°·0 on the 25th; the lowest was 30°·6 on the 21st; and the range in the month was 42°·4.

The mean ,, of all the highest was 57°·4, being 0°·4 *higher* than the average of the preceding 16 years.

The mean ,, of all the lowest was 38°·2, being 0°·7 *lower* than the average of the preceding 16 years.

The mean daily range was 19°·2, being 1°·0 *higher* than the average of the preceding 16 years.

The mean for the month was 46°·8, being 0°·2 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
April 1	w	w	0		5	: 0
2	w	w	5, s, li.-cl		5, cu.-s, ci	: 10
3	w	w	10		10, r	: sl.-r, st.-w
4	w	w	7, ci.-cu		7, cu, ci.-cu	: 0
5	w	w	9, cu, cu.-s		9, cu, cu.-s, shs.-r	: 1
6	w	w	v, sl.-r		v, sl.-r	
7	w	w	v, cu, cu.-s		v, cu	: 5, sl.-r
8	0	0	10, sl.-r		10, shs.-r	
9	0	0	10, sl.-r		10, shs.-r	: 7, lu.-ha
10	0	0 : w	10, r		v,	: ci.-s
11	0	0	5, ci.-cu, shs.-r		10, r	
12	0	0	5, ci.-cu, ci, shs.-r		5, cu, ci.-cu	: 0
13	w	w	2, cu	: sl.-r	2, cu	
14	w	w	7, s		10	: r, st.-w
15	w	w	v, st.-w		v, ci, li. cl	: 10, st.-w
16	w	w	2, st.-w		0	
17	w	w	10	: 7, cu. ci.-cu	7, ci	: 10
18	w	w	10	: 0	0	: 10
19	w	w	7		0	
20	0	0 : w	v, ci.-cu	: 0	0	
21	0	0 : w	0	: 7, cu. cu.-s	0	
22	0	0 : w	10		10	: 0
23	0	0 : w	0	: 10	10	: 1
24	0	0	10	: 8, cu, ci.-cu	10	: 0
25	0	0	5, ci.-cu, s		5, cu, cu.-s	: 10
26	0	0	10, h.-r, st.-w	: v	v, cu, li. cl	: 10
27	w	w	10, r	: sl.-r	10, r	: sc
28	w	w	7, cu, gt.-glm	: 10	10	
29	w	w	10, li.-cl, li		9, ci.-cu, s	: 10
30	w	s, N, w	10	. sl.-r	10, r	

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 51°·8 on the 25th; and the lowest was 32°·6 on the 17th.

The mean ,, was 38°·7, being 1°·4 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0in·235, being 0in·015 *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2gr·7, being 0gr·2 *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 74 (that of Saturation being represented by 100), being 5 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 542 grains, being 2 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 6·8.

WIND.

The proportions were of N. 7, S. 9, W. 6, and E. 8.

RAIN.

Fell on 13 days in the month, amounting to 2in·3, as measured in the simple cylinder gauge partly sunk below the ground, being 0in·7 *greater* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Wind as deduced from Anemometers. Osler's. General Direction. P. M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wells's Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
May 1	In Equator	29·470	48·0	34·0	40·4	35·6	..	25·1	52·5	49·2	4·8	8·6	3·7	−10·4	NE	N	4·0	0·0	0·2	125	0·01
2	Perigee	29·870	49·2	33·1	40·3	30·5	76·0	26·2	52·5	49·2	9·8	14·3	3·8	−10·8	NNW	NNW	2·0	0·0	0·0	175	0·00
3	..	29·922	53·3	34·8	40·7	36·6	76·5	26·3	52·5	48·8	4·1	13·4	4·1	−10·8	NW	N	4·0	0·0	0·6	140	0·07
4	New	29·951	53·8	38·0	43·8	32·3	73·0	35·0	50·0	48·2	11·5	15·4	10·3	− 8·0	NNW	NNE	3·0	0·0	0·3	60	0·00
5	..	29·942	52·0	29·8	40·6	29·9	77·0	20·2	49·5	48·3	10·7	17·8	5·8	−11·4	NE	E	0·0	0·0	0·0	60	0·00
6	..	29·684	51·0	36·0	43·6	32·1	78·5	32·2	49·3	47·8	11·5	15·8	5·9	− 8·6	E	SE ; E	4·0	0·0	0·3	240	0·00
7	..	29·344	44·0	40·2	42·1	36·6	47·5	38·1	50·1	48·3	5·5	12·8	2·9	−10·1	NE	N	10·0	0·6	3·0	300	0·32
8	Greatest Declination N	29·814	48·0	40·0	43·2	39·1	54·0	37·7	51·0	48·8	4·1	6·1	3·3	− 8·9	N	N	8·0	0·0	1·8	250	0·01
9	..	30·013	50·8	41·1	44·7	41·6	58·5	39·1	50·5	47·8	3·1	6·5	1·4	− 7·3	N	N	3·0	0·0	0·4	155	0·00
10	..	29·815	68·3	43·0	52·2	46·5	90·1	42·1	49·5	46·9	5·7	16·7	2·7	+ 0·3	N	N	3·0	0·0	0·4	155	0·00
11	First Qr.	29·694	72·0	44·0	56·4	47·1	95·0	39·0	50·5	48·3	9·3	16·8	3·5	+ 4·6	N	N	0·0	0·0	0·0	120	0·00
12	..	29·579	59·0	44·0	50·7	48·6	69·0	38·0	52·0	49·2	2·1	7·6	1·0	− 1·0	N	Calm	0·0	0·0	0·0	10	0·15
13	..	29·494	62·0	49·0	53·0	49·8	72·5	43·0	53·5	50·0	3·2	10·6	0·8	+ 1·3	SW	SW	2·0	0·0	0·1	160	0·63
14	Apogee	29·424	57·0	43·0	49·3	43·6	74·0	35·1	54·2	50·9	5·7	11·6	3·3	− 2·6	S	SW	4·8	0·0	0·4	200	0·01
15	In Equator	29·346	60·1	43·2	48·8	42·7	83·0	35·0	54·9	50·9	6·1	12·8	0·9	− 3·5	S	SW	4·0	0·0	0·3	115	0·11
16	..	29·400	60·5	42·9	50·1	43·8	75·0	38·3	55·9	51·7	6·3	12·2	5·5	− 2·4	N	NW	0·0	0·0	0·0	75	0·05
17	..	29·517	58·5	46·4	50·2	43·5	72·0	36·9	55·9	52·2	6·7	13·2	3·6	− 2·6	W ; SW	SW	6·0	0·0	1·5	280	0·29
18	..	29·364	59·8	43·0	48·6	45·7	67·0	36·0	55·7	52·7	2·9	7·4	0·0	− 4·6	SW	SW	15·0	0·0	2·0	290	0·26
19	Full	29·715	63·0	42·9	51·9	41·8	80·1	36·0	55·9	52·7	10·1	18·4	4·6	− 1·3	SW	SW	6·0	0·0	0·8	135	0·02
20	..	29·926	65·2	42·0	53·6	42·1	96·0	29·8	56·4	53·5	11·8	18·4	9·2	+ 0·1	S	SW	0·0	0·0	0·0	140	0·00
21	..	29·681	70·0	41·0	56·7	44·1	88·0	..	57·1	53·7	12·6	21·2	2·4	+ 2·7	SE	SE	0·0	0·0	0·0	75	0·00
22	Greatest Declination S	29·481	62·0	52·0	53·2	52·2	64·7	47·1	58·4	54·7	1·0	5·0	0·0	− 1·1	Calm	SW	0·0	0·0	0·0	115	0·65
23	..	29·393	62·5	44·3	53·4	46·3	85·0	35·2	58·9	55·7	7·1	11·6	5·4	− 1·1	SW ; S	S	3·0	0·0	0·2	90	0·01
24	..	29·391	62·1	48·0	53·7	48·3	79·0	41·0	59·4	55·7	5·4	9·3	4·0	− 1·1	S	SW	4·0	0·0	0·3	285	0·14
25	..	29·548	64·8	46·2	53·5	48·7	84·8	40·3	59·9	56·7	4·8	10·3	3·2	− 1·5	SW	Calm	2·0	0·0	0·0	50	0·13
26	..	29·737	69·0	48·3	57·5	50·3	92·5	39·8	60·9	57·2	7·2	15·3	4·8	+ 2·2	S	SW	5·0	0·0	0·6	180	0·00
27	Last Qr.	29·613	70·0	51·0	58·6	47·6	96·0	43·1	60·9	57·7	11·0	15·3	8·8	+ 3·1	SW	SW	0·0	0·0	0·0	90	0·00
28	..	29·496	67·5	48·0	56·3	48·9	91·0	43·2	61·9	58·7	7·4	15·1	0·8	+ 0·5	Calm	SW	0·0	0·0	0·0	60	0·59
29	In Equator	29·819	63·0	47·7	55·1	49·9	78·4	42·0	61·7	58·7	3·2	6·5	1·9	− 2·8	W ; N	NE	0·0	0·0	0·0	180	0·00
30	Perigee	29·981	57·0	40·9	48·4	40·8	74·0	34·1	60·9	56·7	7·6	10·8	3·2	− 7·8	NE	NE	2·0	0·0	0·1	140	0·00
31	..	29·644	49·5	43·1	46·0	45·6	59·7	42·2	59·9	55·2	0·4	3·2	0·0	−10·4	NE	N	1·0	0·0	0·0	140	0·25
Means	..	29·647	59·1	42·6	49·5	43·0	76·9	36·6	55·2	52·1	6·5	12·2	3·6	− 3·7	...	...	..	..	..	Sum 4570	Sum 3·70

BAROMETER READINGS.

The first minimum in the month was 29in·350 on the 1st.

The first maximum in the month was 29in·972 on the 3rd; the absolute minimum .. was 29in·271 on the 7th.

The absolute maximum .. was 30in·039 on the 9th; the third minimum .. was 29in·297 on the 15th.

The third maximum .. was 29in·936 on the 20th; the fourth minimum .. was 29in·357 on the 23rd.

The fourth maximum .. was 30in·002 on the 30th.

The range in the month was 0in·768. The mean for the month was 29in·647, being 0in·109 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 72°·0 on the 11th: the lowest was 29°·8 on the 5th; and the range in the month was 42°·2.

The mean .. of all the highest was 59°·1, being 5°·1 *lower* than the average of the preceding 16 years.

The mean .. of all the lowest was 42°·6, being 1°·6 *lower* than the average of the preceding 16 years.

The mean daily range was 16°·5, being 3°·5 *lower* than the average of the preceding 16 years.

The mean for the month was 49°·5, being 3°·4 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
May 1	w	w	10	10, shs.-r : v
2	w	w	5, cu, ci.-cu	10 : 5
3	s, N	s, N, s, P	9, r, hl	9, sl.-r, hl : hl, r : hl
4	N	N	10	10 : 0
5	N	N	3, cu, ci.-cu : 7	7 : 10
6	N	N	5, cu, ci.-cu, li.-cl	10, cu, ci.-s : 0
7	N	N	10, r, st.-w	10, r, st.-w, h.-sqs
8	N	N	10 m.-r : shs.-r	10 : shs.-r
9	N	N	10 : sl.-r	10
10	m	m	10, s, ci.-cu : v	v, ci.-cu, li.-ci : 0
11			10, ci-s, ci : 0	0
12			10 : shs.-r	3, cu, ci.-cu : r
13			10, r	10 : 0
14			10 shs.-r	10, s, shs.-r, st.-w : v
15			10, shs.-r : 7, cu	7, cu, oc.-r : 10, r
16			10, h : sh.-r	7 : 10, th.-f
17			10, cu, li.-cl	10, hl, r : shs.-hl, r
18	s, N, s, P	s, N, s, P	10, h.-sqs, w, r	8, cu.-s, ci.-s : 10, shs.-hl, r
19	s, N, s, P	s, N, s, P	v, ci.-s, sqs, r : 0	3, cu, li.-cl : sl.-r : 0
20	s, N, s, P	s, N, s, P	0	v, s : 0
21	s, N, s, P	s, N, s, P	0 : v, cu	10, ci.-s, li.-cl : h.-r
22	s, N, s, P	s, N, s, P	10, r	10, r : 9
23	s, N, s, P	s, N, s, P	10, cu, ci.-s	10 : sl.-r
24	s, N, s, P	s, N, s, P	10, oc.-shs.-r	10, cu, ci.-s, shs-h, r
25	w	w	10, sl.-r	10, sl, shs.-r : 7, hl, r
26	w	w	5, cu	10, cu, li.-cl
27	w	w	v, cu, li.-cl	10, cu, ci.-s
28	s, N, s, P	s, N, s, P	7, cu.-s, h.-shs.-r	7, cu.-s : v, shs.-r : 0
29	w	w	10	10
30	w	w	10	10
31	w	0	10, sl.-r : m.-r.	10, m.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 53°·9 on the 22nd; and the lowest was 30°·9 on the 2nd.

The mean ,, was 43°·0, being 2°·5 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0in·277, being 0in·023 *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 3gr·1, being 0gr·3 *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 79 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 539 grains, being 1 grain *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 8·1.

WIND.

The proportions were of N. 11, S. 9, W. 7, and E. 4.

RAIN.

Fell on 18 days in the month, amounting to 3in·5, as measured in the simple cylinder gauge partly sunk below the ground, being 1in·6 *greater* than the average fall of the preceding 16 years.

ELECTRICITY.

May 11 to May 17. The apparatus for the most part was out of order.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as Shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. on following morning.	In the Water of the Thames at Greenwich, as Shewn by Self-Registering Thermometers read at 9h A.M. and 9h P.M. Highest.	In the Water of the Thames at Greenwich, as Shewn by Self-Registering Thermometers read at 9h A.M. and 9h P.M. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Wind as deduced from Anemometers. Osler's. Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wind-wheel's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
June 1	..	29·598	61·3	47·5	49·8	47·7	67·0	44·0	58·9	53·9	2·1	10·8	3·2	− 6·7	W	W; S	0·0	0·0	0·0	110	0·00
2	New	29·717	70·8	45·8	57·5	47·3	98·3	39·8	59·7	54·7	10·2	16·7	6·2	+ 0·7	SW	SW	0·0	0·0	0·0	20	0·00
3	..	29·843	75·3	47·0	61·4	48·4	102·5	38·1	59·9	54·7	13·0	19·2	8·0	+ 4·4	WSW	W	0·0	0·0	0·0	10	0·00
4	Greatest Declination N.	29·948	74·0	50·2	62·1	48·5	103·8	42·1	61·9	57·7	13·6	21·3	7·2	+ 5·0	SW	SW; NNW	0·0	0·0	0·0	145	0·00
5	..	29·900	65·0	50·0	55·3	44·6	84·0	45·0	61·9	57·7	10·7	16·3	6·7	− 2·0	N	N	3·0	0·0	0·2	150	0·00
6	..	30·092	65·6	41·1	52·9	42·8	91·4	31·2	61·9	58·7	10·1	15·6	7·4	− 4·6	NNW	N	2·0	0·0	0·0	30	0·00
7	..	30·120	69·0	44·0	58·1	49·1	80·3	32·8	62·1	59·3	9·0	16·0	6·6	+ 0·3	Calm	SW	0·0	0·0	0·0	65	0·00
8	..	30·084	71·5	52·0	60·4	55·3	85·0	37·0	62·5	59·7	5·1	9·2	3·8	+ 2·5	SW	W	0·0	0·0	0·0	160	0·00
9	..	29·975	72·2	57·1	61·5	54·7	61·0	51·8	63·1	59·7	6·8	14·0	3·2	+ 3·4	SW	SW	0·0	0·0	0·0	85	0·00
10	First Qr.	29·961	72·5	53·0	61·5	56·9	98·8	47·1	63·4	59·7	10·6	17·5	3·0	+ 3·2	Calm	Calm	0·0	0·0	0·0	25	0·00
11	Moon's Equator	29·932	74·3	46·2	59·5	47·5	102·3	38·1	64·9	60·7	12·0	22·3	6·4	+ 1·0	Calm	SW	2·0	0·0	0·0	70	0·00
12	..	29·757	70·0	48·1	57·0	48·8	93·0	42·1	65·4	61·5	10·2	15·1	1·5	+ 0·2	SW	SW	7·0	0·0	0·6	200	0·10
13	..	29·552	65·0	58·0	59·2	57·9	70·5	56·1	65·9	62·5	1·3	5·6	1·1	+ 0·3	SW	SW	3·0	0·0	0·2	195	0·16
14	..	29·522	63·9	48·0	52·9	48·9	85·1	31·2	65·7	63·2	4·0	11·2	3·6	− 7·1	W	SW	10·0	0·0	0·8	160	0·27
15	..	29·867	68·2	44·6	55·4	46·8	87·2	38·5	64·9	61·7	8·6	18·5	3·5	− 3·8	SW	Calm	0·0	0·0	0·0	15	0·00
16	..	29·936	71·4	46·0	58·6	48·6	98·8	36·3	64·4	61·7	10·0	18·7	1·7	− 0·8	Calm	SW	0·0	0·0	0·0	10	0·00
17	..	29·736	72·5	47·0	56·3	52·7	79·0	42·3	64·9	62·2	3·6	8·9	0·6	− 3·2	SW	W; N	0·0	0·0	0·0	40	0·01
18	Full. Greatest Decl. S.	29·722	72·9	48·1	57·9	45·5	88·4	42·5	65·1	62·2	12·4	17·8	4·8	− 1·8	NE; NW	SW; W	0·0	0·0	0·0	45	0·00
19	..	29·421	58·0	47·1	52·3	51·3	67·0	47·1	64·9	61·9	1·0	3·8	0·0	− 7·6	SW	SW	1·0	0·0	0·0	80	0·18
20	..	29·518	68·5	59·7	54·2	54·2	65·5	41·1	64·5	61·7	0·0	6·5	0·0	− 5·9	SW	N; NW	3·0	0·0	0·3	100	1·00
21	..	29·921	67·2	44·0	54·5	47·5	90·1	46·2	63·9	61·5	7·0	15·2	1·8	− 5·8	W	SW	3·0	0·0	0·6	200	0·02
22	..	29·841	67·0	53·9	57·0	53·2	87·0	53·0	63·4	61·3	3·8	12·1	2·6	− 3·4	SW	W	5·0	0·0	0·7	165	0·00
23	..	30·044	63·8	51·1	56·2	53·4	75·7	45·0	62·9	60·5	2·8	11·8	0·8	− 4·4	W; N	N	0·0	0·0	0·0	25	0·00
24	..	30·046	72·0	49·0	59·7	55·1	85·5	50·0	62·9	60·7	4·6	14·2	0·8	− 1·0	Calm; SW	W; NW	3·0	0·0	0·1	120	0·00
25	Perigee. Last Quarter	30·048	77·5	57·2	65·8	59·0	99·5	54·0	64·1	61·7	6·8	14·5	4·8	+ 4·9	NW	N	2·5	0·0	0·1	5	0·00
26	..	30·086	82·4	58·0	68·6	61·0	104·0	51·0	65·9	62·7	7·6	17·0	1·1	+ 7·6	N; NW	Calm	0·0	0·0	0·0	5	0·00
27	..	29·983	83·1	61·8	72·0	61·6	105·4	55·2	67·9	63·9	10·4	17·9	5·4	+10·8	Calm	SW	0·0	0·0	0·0	5	0·00
28	..	29·945	78·0	57·0	64·3	55·4	104·0	54·0	68·9	64·7	8·9	18·5	6·5	+ 0·3	NE	NE	0·0	0·0	0·0	15	0·00
29	..	30·130	72·8	48·0	58·8	50·0	99·0	34·0	69·4	65·2	8·8	15·7	7·2	− 2·7	NE	NE; Calm	0·0	0·0	0·0	20	0·00
30	..	29·922	77·0	50·9	62·2	53·5	102·5	39·9	69·4	65·5	8·7	18·2	2·8	+ 0·5	Calm; W	NE	0·0	0·0	0·0	10	0·00
Means	..	29·877	70·8	50·0	58·8	51·3	88·7	44·4	64·1	60·7	7·5	14·7	3·7	− 0·5	...	...	..	..	..	2285	1·74

BAROMETER READINGS.

The first minimum in the month was 29in·583 on the 1st.

The first maximum in the month was 30in·140 on the 7th: the second minimum .. was 29in·445 on the 13th.

The second maximum .. was 30in·009 on the 16th; the absolute minimum .. was 29in·382 on the 19th.

The absolute maximum .. was 30in·153 on the 29th.

The range in the month was 0in·771; the mean for the month was 29in·877, being 0in·082 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 83°·1 on the 27th: the lowest was 41°·1 on the 6th; and the range in the month was 42°·0.

The mean ,, of all the highest was 70°·8, being 0°·2 *higher* than the average of the preceding 16 years.

The mean ,, of all the lowest was 50°·0, being 0°·2 *higher* than the average of the preceding 16 years.

The mean daily range was 20°·8, being *the same* as the average of the preceding 16 years.

The mean for the month was 58°·8, being 0°·2 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
June 1	w	w	10, r	10 : 10, v
2	w	w	0 : 5, cu, li-cl	4, ci.-cu, s
3	w	w	0	5 : 0
4	w	w	0	4, ci, li.-cl
5	w	w	5	5 : 10, cu, ci.-s
6	w	w	7, cu, ci.-s	7, cu, ci.-cu
7	w	w	5	5, ci, li.-cl
8	m	m	10, sl.-r	10
9	m	m	10	7, cu, li.-cl : 10
10	m	m	5, s, li-cl	5, cu, ci-cu, s
11	m	m	0	0 : 5, s, li.-cl
12	m	m	10, ci.-cu, ci, s	10 : 10, sl.-r
13	m	m	10, h.-r	10, r
14	s N, s P, sps, g cur	s N, s P, sps, g cur	8, cu, s : 10, hl, r	8, cu, li.-cl, shs.-hl, r
15	0	0	7, cu, li.-cl	7, cu, ci
16	0	m	0 : 6, cu	3, cu, : 10, s, ci.-s, ci
17	s	s	10 : 10, sl.-r	10 : 5
18	s N	m	3, cu	3, cu
19	w	w	10, r	10 : 8
20	s, sps	s N, s P, sps, g cur	5, cu, shs.-r	10, cu, ci.-s, shs.-r, l, t
21	w		7, cu, li.-cl.	10, cu, s, shs.-r
22	0	0 : s	10, shs.-r	5, sl.-r : 6, s, ci
23	0 : w, N	m	10	10
24	s	s	7 cu, li.-cl	7 : 10, sl.-r
25	m	s	10	10 : 10, h
26	s P : s N	m	10	10, v : 5, ci
27	s	m : 0	5, cu	6, cu, li.-cl
28	w	w	10	3, cu, li.-cl
29	0	0	0	0
30	w	m	2, ci, s	10

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 65°·9 on the 27th; and the lowest was 41°·6 on the 10th.
The mean ,, was 51°·3, being 0°·8 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0·378, being 0·011 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was [illegible], being 0·3 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 76, that of Saturation being represented by 100, being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 536 grains, being 5 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·2.

WIND.

The proportions were of N. 8, S. 6, W. 14, and E. 2.

RAIN.

Fell on 7 days in the month, amounting to 1·6, as measured in the simple cylinder gauge partly sunk below the ground; being 0·1 [illegible] the preceding 16 years.

MONTH and DAY. 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (Corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Solar Radiation Thermometer in Vacuo.	Lowest Terrestrial Radiation Thermometer.	Wet Bulb. Highest.	Wet Bulb. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Dew Point Temperature of the Day and the Mean Dew Point Temperature of the Week ending on the Day of the Month.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean.	Absolute Horary Maximum Velocity in Miles.	Rain in Inches read at 9 A.M.
			°	°	°	°	°	°	°	°	°	°	°				lbs.	lbs.	lbs.		in.
July 1	[illegible]	30·057	70·2	48·0	57·7	44·9	95·4	44·2	68·9	65·7	12·8	20·7	6·4	— 4·1	NE	NE; SSE	0·0	0·0	0·0	45	0·00
2	New	30·062	72·5	47·2	56·5	46·7	102·0	39·2	68·5	65·7	9·8	18·5	4·6	— 5·5	SE; E	NE; SE	0·0	0·0	0·0	60	0·00
3	..	30·077	70·5	44·0	56·2	48·0	97·2	35·2	68·7	65·7	8·2	17·5	5·8	— 5·9	SW; NE	E	0·0	0·0	0·0	50	0·00
4	..	29·929	76·3	44·7	61·8	48·8	98·0	47·3	68·4	64·9	13·0	19·6	4·0	— 0·4	Calm	Calm	0·0	0·0	0·0	110	0·00
5	..	29·879	73·3	53·5	61·2	56·4	93·3	46·2	67·9	64·7	10·8	16·2	6·2	— 1·1	Calm	NW; Calm	0·0	0·0	0·0	20	0·00
6	..	29·843	79·0	54·3	65·2	51·7	105·0	..	67·9	64·9	13·5	18·7	3·2	+ 3·0	W	W	2·5	0·0	0·5	225	0·01
7	..	29·436	63·2	52·1	56·6	52·2	72·0	44·8	67·4	63·7	4·4	10·1	2·6	— 5·5	W	SW	5·0	0·0	1·5	265	0·10
8	..	29·386	56·7	46·0	48·0	45·3	68·1	44·1	66·9	62·7	2·3	7·6	0·0	—14·6	W	NW	16·6	0·0	2·3	110	0·19
9	In Equator.	29·636	66·2	44·2	53·0	47·1	84·5	38·1	64·9	61·7	5·9	14·1	3·6	— 8·9	W	NW	0·0	0·0	0·0	90	0·01
10	First Qr.	29·736	72·8	44·0	57·8	49·4	102·0	39·2	63·9	62·7	8·4	18·2	4·7	— 4·0	W	W	1·5	0·0	0·3	45	0·00
11	..	29·780	72·4	54·0	61·6	56·5	85·8	47·3	63·9	62·7	5·1	16·4	2·6	— 0·2	W	WSW	2·0	0·0	1·0	215	0·00
12	..	29·704	70·8	58·0	61·1	58·2	86·0	54·2	63·9	61·7	2·9	7·7	1·9	— 0·8	WNW	W	0·0	0·0	0·0	25	0·00
13	..	29·753	71·0	51·0	58·4	51·0	94·0	43·8	63·9	61·7	7·4	13·3	3·4	— 3·6	WNW	SW	0·0	0·0	0·0	65	0·00
14	..	29·841	68·9	53·2	60·1	56·7	95·4	47·8	64·4	62·2	3·4	7·9	1·5	— 2·0	Calm; SE	S	0·0	0·0	0·0	30	0·00
15	..	29·805	77·0	55·2	63·3	58·0	98·0	44·1	64·9	62·3	5·3	14·5	1·0	+ 1·2	SSW	S; Calm	1·0	0·0	0·0	20	0·30
16	Declination S.	29·739	67·8	54·0	58·2	53·4	83·3	52·8	64·9	62·7	4·8	14·4	2·3	— 3·9	Calm; SW	WSW	3·6	0·0	0·8	225	0·05
17	Full	29·980	71·5	48·0	59·2	50·2	96·0	40·3	64·9	62·3	9·0	17·5	3·8	— 2·1	WSW	W	1·5	0·0	0·0	115	0·00
18	..	29·888	64·8	50·0	57·3	54·3	98·3	41·8	64·9	62·2	3·0	7·6	2·3	— 4·7	SW	SW	2·5	0·0	0·5	115	0·00
19	..	29·871	77·5	50·8	64·5	59·0	102·6	42·3	67·1	62·2	5·5	13·4	0·6	+ 2·6	W	W	3·5	0·0	0·6	95	0·00
20	..	29·833	67·8	60·0	62·1	59·8	74·0	58·0	64·9	62·5	2·3	5·9	1·1	— 0·2	Calm; NE	N; Calm	0·0	0·0	0·0	70	0·32
21	Perigee	29·849	74·8	56·2	62·9	60·1	94·0	56·0	65·4	62·7	2·8	8·8	1·3	— 1·1	Calm; NW	NW; Calm	0·0	0·0	0·0	10	0·06
22	In Equator.	29·759	78·5	60·3	69·2	61·3	103·0	56·4	66·1	63·7	5·1	11·1	2·1	— 4·6	Calm; NE	SW	0·0	0·0	0·0	35	0·15
23	..	29·558	83·0	52·4	68·8	58·2	100·3	46·0	67·5	64·2	10·6	21·9	6·7	— 7·0	SW	SW	3·0	0·0	0·1	100	0·00
24	Last Qr.	29·524	75·0	61·0	64·2	60·4	93·0	58·1	68·1	64·2	3·8	8·6	1·5	+ 2·3	WSW	SW	1·5	0·0	0·2	130	0·95
25	..	29·740	74·8	50·0	62·7	53·6	102·2	53·3	68·4	64·9	9·1	17·3	7·2	+ 0·8	NW	W	2·0	0·0	0·1	125	0·00
26	..	29·903	76·3	49·8	62·1	53·8	102·0	47·4	68·9	65·7	8·3	20·7	2·1	+ 0·1	W	W	2·3	0·0	0·2	135	0·08
27	..	29·936	71·2	50·0	58·6	52·6	95·4	41·5	68·4	65·5	5·0	13·7	2·5	— 3·5	W	SW	1·0	0·0	0·0	90	0·02
28	..	29·893	76·0	53·4	62·6	59·0	98·0	48·8	68·4	65·7	3·6	12·4	0·0	+ 0·4	SW	SW; Calm	0·0	0·0	0·0	40	0·20
29	[illegible]	30·000	81·1	53·6	65·5	61·9	104·5	49·1	68·9	65·9	3·6	14·5	0·0	— 3·3	Calm	SW	0·0	0·0	0·0	55	0·00
30	..	30·124	85·3	57·8	68·5	62·0	105·1	52·3	70·0	66·7	6·5	16·3	1·9	— 6·3	WSW	W; Calm	0·0	0·0	0·0	15	0·00
31	New	30·084	87·5	58·7	71·9	57·7	106·0	49·2	70·5	67·7	14·2	25·4	0·5	— 9·9	Calm	SE	0·0	0·0	0·0	5	0·00
Means	..	29·831	73·3	52·4	61·1	54·2	94·7	47·2	66·7	63·9	6·9	14·4	2·8	— 0·9	...	...	..	..	..	2780	1·24

BAROMETER READINGS.

The absolute minimum in the month was 29″·187 on the 8th.

The first maximum in the month was 29″·988 on the 17th; the second minimum .. was 29″·500 on the 24th.

The absolute maximum .. 30″·142 on the 30th.

The range in the month was 0″·955.

The mean for the month was 29″·831, being 0″·030 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 87°·5 on the 31st; the lowest was 44°·0 on the 10th; and the range in the month was 43°·5.

The mean ,, of all the highest daily readings was 73°·3, being *the same* as the average of the preceding 16 years.

The mean ,, of all the lowest daily readings was 52°·4 being 0°·8 *lower* than the average of the preceding 16 years.

The mean daily range was 20°·9, being 0°·8 *higher* than the average of the preceding 16 years.

The mean for the month was 61°·1, being 0°·6 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
July 1	s	s : m	0 : 3, li.-cl	c
2	w	w	5	5, cu, ci.-s : 0
3	w	w	2, cu	6
4	w	w	0, li.-cl : 10	10 : 10, sh.-r
5	w	w	7	7, cu, li.-cl
6	w	w	8, cu, ci.-cu, c.-s	7, cu, ci.-cu : 10, sl.-r
7	w	w	10 : 10, r, st.-w	10, oc.-r
8	s		10, r, sqs	10, r, sqs
9			10, sh.-r	7 : 10, sl.-r
10			3, li.-cl : 8	8, cu, li.-cl
11			10 : 10, m.-r	10, shs.-r
12			10	10, sl.-r : 7, ci.-s, t
13			10	10 : 10, sl.-r
14			10	10, s.-r : 0
15			10, sl.-r	5, cu, li.-cl : 5, cu, ci.-cu, l, t, hl, h.-r.
16			10, cu, st.-w	10 : 5, t, r : 0
17			7, cu, ci	7, cu : 0
18	w	w	10, sl.-r	10, sl.-r : 0
19	w	o	7, ci.-cu, ci, r	7, cu, li.-cl : 10
20	o	o	10, r	10, shs.-r
21	o	w	10, r	10
22	m	m	7, li.-cl, shs.-r	7 : 0
23	w	w	0 : 5, ci.-cu, li.-cl	7, cu : 10, l, t, r
24	w	w	10	10, cu, s : 7
25	w	w	7 : 6, cu, ci.-s	7
26	s	w	5, cu, li.-cl	7, cu, li.-cl : 10, sh.-r, t : 0
27	s	m	10, ci.-cu, ci.-s	10 : 10, r
28	o	w	10	10, cu, s : 8, cu.-s, ci.-s, l, r, t
29	m	m	5, f	6, cu, li.-cl : 0
30	s	m	10 : 0	0 : 10
31	w	w	0	0

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 67°·2 on the 31st; and the lowest was 43°·6 on the 8th.
The mean ,, was 54°·2, being 0°·4 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0·421, being 0·006 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4·7, being 0·1 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 78 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 529 grains, being 2 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 5·1.

WIND.

The proportions were of N. 4, S. 7, W. 17, and E. 3.

RAIN.

Fell on 13 days in the month, amounting to 0^{in}·9, as measured in the simple cylinder gauge partly sunk below the ground; being 1^{in}·8 *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Reading of the Standard Black Bulb Thermometer in Vacuo.	Lowest Reading of the Terrestrial Radiation Thermometer.	In the Water of the Surface Layer of the Sea. Highest.	In the Water of the Surface Layer of the Sea. Mean.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day for 16 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of the 24 Observations.	Wind. Amount of the Horizontal Movement of the Air during each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 1	..	30·012	85·8	57·0	71·9	61·6	108·2	51·0	71·2	68·3	10·3	20·9	1·1	+ 9·7	Calm ; NE	ESE	1·8	0·0	0·2	20	0·00
2	..	29·927	89·8	61·0	74·2	61·6	111·0	57·3	72·5	69·2	12·6	25·0	6·3	+12·0	E	SE	1·0	0·0	0·0	55	0·00
3	..	29·918	87·9	56·5	72·4	58·7	111·2	47·9	73·0	70·2	13·7	24·8	1·2	+10·3	ESE	SE	1·5	0·0	0·1	35	0·00
4	..	30·031	85·5	57·0	68·1	60·1	110·0	51·2	73·0	70·2	8·0	21·9	0·0	+ 6·0	Calm ; ENE	SE	0·0	0·0	0·0	5	0·00
5	In Equator Asc.	30·086	83·2	50·3	65·8	54·0	109·5	46·0	73·0	70·7	11·8	26·2	1·3	+ 3·7	SE ; Calm	Calm	0·0	0·0	0·0	5	0·00
6	..	29·995	79·5	49·8	63·1	53·0	105·0	40·2	73·0	70·5	10·1	25·3	0·4	+ 1·1	Calm	NE ; Calm	0·0	0·0	0·0	5	0·00
7	..	29·805	85·2	49·5	67·0	53·5	105·0	42·0	73·0	70·3	13·5	31·6	1·9	+ 5·0	Calm	Calm	0·0	0·0	0·0	20	0·00
8	..	29·542	72·3	51·5	61·9	56·4	99·6	46·8	72·5	70·3	5·5	13·7	2·9	0·0	S	SE	0·0	0·0	0·0	5	0·00
9	First Qr	29·642	74·5	58·0	64·3	61·5	79·7	50·8	72·0	69·5	2·8	7·4	2·0	+ 2·5	SSW	S	3·0	0·0	0·3	140	0·21
10	..	29·703	83·0	59·0	69·3	64·3	102·0	35·0	71·5	68·9	5·0	11·9	1·5	+ 7·5	S	Calm	0·0	0·0	0·0	25	0·00
11	..	29·693	87·0	61·6	71·1	60·8	102·0	54·8	71·5	69·2	10·3	20·9	2·2	+ 9·4	Calm ; SW	SW	0·0	0·0	0·0	95	0·00
12	Greatest Declination S.	29·821	79·8	58·2	67·4	58·1	101·5	50·8	71·8	69·7	9·3	20·7	1·0	+ 5·8	SW	SW	3·0	0·0	0·4	115	0·00
13	..	29·811	84·8	55·7	68·5	55·6	105·5	49·0	72·0	69·7	12·9	19·5	0·0	+ 7·1	SW	SSW	1·0	0·0	0·1	70	0·00
14	..	29·743	77·5	59·0	64·4	57·7	103·0	53·3	72·0	69·7	6·7	19·4	3·4	+ 3·1	Calm ; SW	SW	2·5	0·0	0·3	195	0·40
15	..	29·809	76·5	56·5	64·9	55·0	100·5	51·7	71·5	68·9	9·9	20·2	2·8	+ 3·6	SW	W	3·5	0·0	0·5	80	0·00
16	Full	29·762	78·0	48·5	62·5	53·2	104·5	41·2	71·0	68·2	9·3	18·7	2·7	+ 1·4	Calm	Calm	0·0	0·0	0·0	50	0·00
17	..	29·355	71·8	57·0	59·8	58·5	79·8	55·0	69·4	66·7	1·3	2·7	0·6	— 1·2	ENE	NE	1·8	0·0	0·1	65	0·67
18	Perigee In Equator.	29·302	67·3	55·5	57·4	51·4	66·0	54·3	68·4	65·7	6·0	6·8	3·6	— 3·4	NE	NE	1·6	0·3	0·6	85	0·00
19	..	29·415	63·8	55·4	57·8	55·8	66·1	53·1	67·9	64·7	2·0	2·1	0·6	— 2·9	NNE	NE	0·0	0·0	0·0	..	0·16
20	..	29·363	66·5	55·0	59·3	56·7	70·0	51·4	66·9	63·5	2·6	7·3	0·8	— 1·3	ESE	SE	1·5	0·0	0·1	..	0·24
21	..	29·222	67·2	56·0	59·0	53·8	74·1	55·1	66·4	62·9	5·2	8·8	0·0	— 1·4	SSW	SSW	4·0	0·0	0·2	..	0·47
22	Last Qr.	29·618	69·5	53·8	58·6	52·1	87·0	52·2	65·9	62·2	6·5	8·6	5·3	— 1·7	NNE	N	3·3	0·0	0·3	..	0·00
23	..	30·017	63·5	45·0	53·0	46·2	73·5	35·2	65·7	61·9	6·8	11·2	4·0	— 7·2	NNW	Calm	3·5	0·0	0·2	..	0·00
24	..	29·963	70·2	51·0	59·4	54·3	90·1	45·0	64·5	61·7	5·1	11·0	4·9	— 0·6	SW	SW	0·0	0·0	2·0	..	0·00
25	Greatest Declination N.	29·794	65·5	56·0	60·2	57·3	71·0	51·3	64·4	61·7	2·9	5·6	1·5	+ 0·3	SW	SW	3·5	0·0	0·8	..	0·01
26	..	29·813	70·3	54·7	60·2	50·8	90·7	49·1	63·9	61·7	9·4	14·2	5·7	+ 0·4	NW	NW ; SW	2·5	0·0	0·3	..	0·02
27	..	29·672	75·5	56·0	64·3	57·0	96·0	54·8	63·7	61·7	7·3	12·4	6·3	+ 4·7	SW	W ; NW	2·4	0·0	0·4	..	0·00
28	..	29·658	70·9	54·0	61·0	55·6	85·0	51·0	63·7	61·2	5·4	9·4	3·0	+ 1·5	W	W	3·0	0·0	0·6	..	0·05
29	..	29·870	72·0	55·0	61·3	52·9	83·0	..	63·5	61·2	8·4	13·9	5·0	+ 2·0	W	W ; Calm	3·0	0·0	0·4	120	0·00
30	New	29·977	73·5	45·8	60·9	49·7	96·5	..	63·9	61·7	11·2	19·8	2·2	+ 1·7	Calm	SW	0·0	0·0	0·0	125	0·00
31	..	29·786	74·0	55·6	62·5	53·7	90·0	..	63·9	61·7	8·8	18·7	3·2	+ 3·5	SW	W ; Calm	0·0	0·0	0·0	55	0·01
Means	..	29·746	75·9	54·7	63·6	55·8	92·6	49·4	68·9	66·2	7·8	15·5	2·5	+ 2·7	...	...	..	..	..	Sum 1370	Sum 2·24

BAROMETER READINGS.

The first minimum in the month was 29in·914 on the 2nd.

The absolute maximum in the month was 30in·113 on the 5th; the second minimum ,, was 29in·502 on the 8th.

The second maximum ,, was 29in·855 on the 13th; the absolute minimum ,, was 29in·192 on the 21th.

The third maximum ,, was 30in·049 on the 30th.

The range in the month was 0in·921.

The mean for the month was 29in·746, being 0in·049 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 89°·8 on the 2nd; the lowest was 45°·0 on the 23rd; and the range in the month was 44°·8.

The mean ,, of all the highest daily readings was 75°·9, being 3°·5 *higher* than the average of the preceding 16 years.

The mean ,, of all the lowest daily readings was 54°·7, being 1°·4 *higher* than the average of the preceding 16 years.

The mean daily range was 21°·2, being 2°·1 *less* than the average of the preceding 16 years.

The mean for the month was 63°·6, being 2°·3 *higher* than the average of the preceding 16 years.

Whewell's Anemometer was under repair from August 19 to August 28.

MONTH and DAY, 1856.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 1	w	w	0	0
2	w	w	0	0
3	m	s	0	0
4	m	w	10 : 0	0
5	w	m	0	0
6	s	m : s	0	: 0, h
7	s	m	10, li.-cl.	0
8	s	s	10 : 10, shs.-r	10 : 10, shs.-r
9	s	m	10, fr.-h.-shs	10 : 0, st.-w, ms
10	w	m	10	10, ci.-cu, ci.-s : 10, l
11	s : w	m : s	4, ci	6, ci.-cu, ci : 10, shs.-r, t, l
12	m	m : s	7, cu	7, cu, ci.-cu, ci
13	m	m	5, li.-cl	5, cu, ci.-cu : 0, l
14	w	s, sps g cur	10, cu, ci.-cu, li.-cl, h-r	5, ci.-cu, r : 0, l
15	w	w	7	6, cu, ci.-cu, ci
16	s	s	5, ci, li.-cl	10 : 6, sh.-r, l
17	v	w	10, h.-shs, r, l, t	10, th.-r
18	w	w	10 : 10, sl.-r	10 : 7
19	w	0	10, r	10, r
20	0 : v	0	10, r	10, shs.-r : 7, st.-w
21	s N : w	w	10, h.-r	8, shs.-r : 0
22	s P, s N	s	9 : 10, sh.-r	10 : 8, l
23	s	m	10	3, li.-cl
24	s	s	8 ci.-cu	8 : 10, shs.-r
25	m	m	10	10, r
26	m : s N	w : s, sps	5, cu, li.-cl	5 : 10, shs.-r
27	s	w : s	10	7, cu, li.-cl
28	s	s : v	10	10 : 0
29	s	s	7, li.-cl	7, cu, ci.-s : 0, f
30	s	w : s	0	5, cu, ci.-cu : 0
31	s	s	7	10, cu, ci.-cu : 10, h.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 68°·4 on the 2nd; and the lowest was 45°·5 on the 23rd.
The mean ,, was 55°·8, being 1°·7 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·446, being 0^{in}·023 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}·9, being 0^{gr}·2 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 77 (that of Saturation being represented by 100), being 1 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 525 grains, being 3 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·2.

WIND.

The proportions were, N. 5, S. 9, W. 10, and E. 7.

RAIN.

Fell on 10 days in the month, amounting to 2^{in}·4 as measured in the simple cylinder gauge partly sunk below the ground; being 0^{in}·1 *less* than the average fall of the preceding 16 years.

MONTH and DAY. 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Humidity of the Air shown by the Wet Bulb Thermometer at 9 A.M.	Degree to which Evaporation has been carried at 9 A.M. as shown by the Wet Bulb Thermometer.	In the Water of the Thames at Greenwich by Self-Registering Thermometers, read at 9 A.M. next morning. Highest.	In the Water of the Thames at Greenwich by Self-Registering Thermometers, read at 9 A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean of the same Day in an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Hours.	Whewell's Velocity of the Wind in Miles per Hour.	Rain in Inches Read at 9 P.M.
Sept. 1	In Equator	29·666	69·8	48·0	57·9	48·4	80·8	..	63·.	61·7	9·5	18·.	2·3	—	1·0	Calm	Calm	0·0	0·0	0·0	5c	0·02
2	Apogee	29·912	67·3	47·5	55·3	46·8	86·0	..	64·1	61·.	8·5	17·5	2·5	—	3·4	Calm ; N	Calm	0·0	0·0	0·0	80	0·06
3	..	30·142	67·4	43·8	55·9	47·3	82·0	..	63·9	61·7	8·6	17·1	4·2	—	2·6	Calm	Calm	0·0	0·0	0·0	55	0·00
4	..	30·018	71·0	46·7	57·5	47·1	90·5	..	63·9	61·.	10·4	22·7	3·2	—	0·9	Calm	SE; E	0·0	0·0	0·0	65	0·00
5	..	29·812	66·8	45·2	54·6	46·5	88·8	..	63·7	61·7	8·1	18·2	4·0	—	3·6	E	E	2·5	0·0	0·5	80	0·00
6	..	29·592	70·1	49·1	58·7	51·8	93·0	35·5	63·4	61·2	6·9	20·2	1·8	+	0·7	E	SE	0·0	0·0	0·0	35	0·00
7	First Qr.	29·68.	71·0	48·0	57·7	48·3	91·0	40·7	63·1	60·.	9·4	17·8	1·9	—	0·2	Calm	Calm	0·0	0·0	0·0	40	0·23
8	..	29·782	68·0	46·5	57·1	51·8	85·8	37·5	62·9	60·7	5·3	13·0	2·6	—	0·.	Calm	Calm	0·0	0·0	0·0	10	0·00
9	Greatest Declination S.	29·758	71·5	44·8	58·1	52·4	92·0	37·0	63·1	60·.	5·7	20·5	2·7	+	0·6	SE	E	0·0	0·0	0·0	70	0·00
10	..	29·812	72·5	57·0	63·5	54·6	86·5	50·3	63·4	60·7	8·9	16·9	4·9	+	6·1	E	ESE	0·0	0·0	0·0	50	0·00
11	..	30·003	71·2	56·2	61·3	53·6	84·0	49·5	63·4	60·7	7·7	13·7	4·6	+	4·0	NE	NE	0·0	0·0	0·0	75	0·00
12	..	30·008	72·3	53·0	59·1	53·2	92·8	51·0	63·4	61·2	5·9	11·3	1·0	+	2·1	NE	NE	0·0	0·0	0·0	25	0·05
13	..	29·913	64·7	31·0	54·1	47·8	81·0	49·0	63·4	..	6·3	12·4	1·4	—	2·7	Calm	N	0·0	0·0	0·0	125	0·13
14	Full	30·044	67·8	46·0	54·3	42·0	71·2	41·0	62·9	..	12·3	17·5	3·1	—	2·4	N	N	0·0	0·0	0·0	50	0·00
15	In Equator Perigee	30·044	70·0	45·2	57·0	49·6	75·0	37·1	62·4	..	7·4	14·9	6·6	+	0·5	W	SW	2·0	0·0	0·2	220	0·00
16	..	30·016	67·0	52·4	57·7	44·7	86·0	43·1	61·9	..	13·0	20·0	6·6	+	1·4	WSW ; NW	NW ; W	2·0	0·0	0·1	125	0·00
17	..	29·773	66·5	48·0	57·3	48·7	75·0	40·3	61·4	..	8·6	12·2	5·3	+	1·2	WSW	WSW	4·0	0·0	0·5	85	0·04
18	..	29·733	63·5	48·0	52·8	45·7	70·0	49·9	61·4	..	7·1	13·2	3·4	—	3·1	N ; NW	NW	0·0	0·0	0·0	105	0·1.
19	..	29·793	59·0	41·0	49·5	37·8	75·0	30·9	61·1	..	11·7	17·1	3·5	—	6·3	NW	NW	3·0	0·0	0·3	80	0·00
20	..	29·932	55·2	40·0	47·5	38·.	74·0	30·7	60·4	..	8·6	11·2	5·8	—	8·0	NW ; N	N	2·5	0·0	0·4	100	0·00
21	Last Qr.	29·773	62·0	40·0	51·0	42·9	84·0	29·0	59·9	..	8·1	18·8	3·2	—	4·4	SW	SW	2·5	0·0	0·2	150	0·20
22	Greatest Declination N.	29·263	63·7	48·0	54·7	47·6	73·0	38·8	58·7	..	7·1	16·7	4·4	—	0·6	SW	SW	4·0	0·0	0·7	215	0·20
23	..	29·072	65·5	48·6	54·5	46·3	79·5	41·2	57·9	55·3	8·2	16·0	3·2	—	0·5	SW	SW	3·0	0·0	0·4	175	0·02
24	..	29·029	62·2	49·0	53·6	47·6	70·0	40·3	57·9	55·2	6·0	11·0	1·2	—	1·2	SW	SW ; Calm	1·0	0·0	0·0	70	0·35
25	..	29·205	63·5	45·0	52·7	46·3	65·0	40·4	57·7	55·2	6·4	15·0	2·1	—	2·0	SW	W	3·0	0·0	0·5	140	0·02
26	..	29·425	62·0	44·0	52·6	45·2	60·0	33·5	57·4	54·7	7·4	16·3	0·8	—	1·8	W	SW ; SSE	0·0	0·0	0·0	155	0·15
27	..	28·922	54·8	49·9	51·1	49·0	58·5	46·0	56·9	54·7	2·1	4·0	0·0	—	3·2	SE	SSE	2·0	0·0	0·2	115	0·0.
28	In Equator	28·765	58·0	48·5	51·1	47·6	68·0	45·8	56·9	54·5	3·5	5·6	1·1	—	2·9	S	SW	3·0	0·0	0·4	120	0·30
29	New Apogee	29·134	60·5	48·6	53·0	47·9	70·0	44·0	56·9	54·7	5·1	8·0	2·9	—	0·8	SW	NW; SW	0·0	0·0	0·0	90	0·06
30	..	29·550	61·5	49·0	53·8	47·2	75·5	39·5	56·9	54·5	6·6	10·6	2·4	+	0·3	WSW	W	0·0	0·0	0·0	25	0·10
Means	..	29·653	65·5	47·6	55·2	47·5	79·2	40·9	61·1	58·7	7·7	15·0	3·1	—	1·2	...	...	..	..	..	2825	2·81

BAROMETER READINGS.

The first minimum in the month was 29in·607 on the 1st.
The absolute maximum in the month was 30in·166 on the 3rd ; the second minimum ,, was 29in·572 on the 6th.
The second maximum ,, was 30in·103 on the 15th; the absolute minimum ,, was 28in·688 on the 28th.
The third maximum ,, was 29in·723 on the 20th.
The range in the month was 1in·478.
The mean for the month was 29in·683, being 0in·189 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 72°·5 on the 10th ; the lowest was 40°·0 on the 20th ; and the range in the month was 32°·5
The mean ,, of all the highest daily readings was 65°·5, being 1°·8 *lower* than the average of the preceding 16 years.
The mean ,, of all the lowest daily readings was 47°·6, being 1°·0 *lower* than the average of the preceding 16 years.
The mean daily range was 17°·9, being 0°·7 *lower* than the average of the preceding 16 years.
The mean for the month was 55°·2, being 1°·5 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Sept. 1	s	wN:sN,sP,sps,gcur	5, li.-cl	5, cu, ci, li.-cl : 10, t.-s
2	w	w	10, cu, li.-cl : 3	3, cu : o : o, f
3	m	w	7, f	7, li.-cl : o
4	m	ss	7, ci.-cu, ci	7, cu, ci.-cu : o
5	v	w	o : 7	2, cu, ci.-cu : o
6	s	m	7, cu, ci.-cu, li.-cl : 10	10 : 10, r
7	m	w	8, ci.-cu, ci.-s, n	3, cu, ci.-cu, ci
8	m	w	7, h	5, cu, ci.-cu : 10, s, h
9	m	m	7, f	7
10	s	s	10	10 : 8
11	v	v	10	10
12	m	v	7, cu, ci.-s	7 : 10, r
13	m	m	10, h.-r	10, cu, li.-cl : o, cu.-co, lu.-ha.
14	s	w : s	5	5, cu, li.-cl : o
15	s	ss	7, ci, li.-cl	7, cu, li.-cl
16	m	w : ss, sps	5, cu, li.-cl	10, cu, ci.-cu : 8, ci.-cu, ci.-s
17	s	s	10, ci.-cu	7 : th.-r.
18	m	w	10, r	5, cu, li.-cl
19	s : w	w	o	7, cu, st.-w : 3, h
20			o : 10	10
21			5, cu, ci.-cu : 10	10 : 5, r
22			o : 10, h.--hs.-r	8, cu, ci.-cu, li.-cl, shs.-r : o
23		s N, sps, g cur	5, li.-cl	10, r, t : 5
24			7, ci.-cu, s	10, r
25	w	ss, sps, g cur	4, ci.-cu, s, r	5, cu, r, t
26	v	v	o	10, cu, ci.-cu, s, shs.-r
27	s : w, N	s N, sps, g cur : w	10, r	10, r : 8
28	v	m	10, ci.-s, s, sc, h.-r	5, h., cu, r, st.-w
29	s	s	7, cu, r	10, ci.-cu, li.-cl, h.-r
30	s	s	5, li.-cl	10 : 10, h.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·5 on the 6th; and the lowest was 39°·8 on the 19th.

The mean .. was 47°·5, being 3°·3 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0in·329, being 0in·051 *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 3gr·8, being 0gr·4 *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 76 (that of Saturation being represented by 100), being 5 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 533 grains, being 1 grain *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·7.

WIND.

The proportions were of N. 7, S. 8, W. 9, and E. 7.

RAIN.

Fell on 17 days in the month, amounting to 2in·8, as measured in the simple cylinder gauge partly sunk below the ground; being 0in·7 *greater* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Solar Radiation Thermometer exposed in vacuo.	Lowest Terrestrial Radiation Thermometer on the Surface of Grass.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9 A.M. Highest.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9 A.M. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 16 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	General Direction. P. M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Hours.	Amount of Rain in Inches and Hundredths collected in the Gauge at Greenwich.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	inches.	in.
Oct. 1	..	29·695	64·7	47·0	54·1	48·0	73·0	37·2	56·4	54·5	6·1	14·3	0·8	+ 0·8	SW	Calm ; S	0·0	0·0	0·0	30	0·01
2	..	29·665	66·0	48·0	56·5	50·0	82·8	40·8	56·4	54·5	5·6	14·3	2·0	+ 3·4	SE	S	1·0	0·0	0·0	75	0·00
3	..	29·680	64·7	54·0	58·6	53·3	75·4	48·5	57·4	54·9	5·3	9·9	4·8	+ 5·8	SSW	S	2·0	0·0	0·2	140	0·00
4	..	29·588	65·8	57·0	59·7	55·6	70·3	52·5	57·9	55·2	4·1	6·7	0·0	+ 7·1	SSW	SW	2·2	0·0	0·3	85	0·07
5	..	29·718	61·3	55·8	57·2	53·0	65·0	53·1	57·9	55·7	4·2	5·9	1·6	+ 4·8	SW	W ; SW	0·0	0·0	0·0	65	0·10
6	Greatest Declinations S.	29·825	57·8	51·7	54·1	53·1	60·0	42·5	58·1	55·7	1·0	2·2	0·8	+ 1·8	Calm	Calm ; E	1·0	0·0	0·2	85	0·02
7	First Qr.	29·797	57·8	54·3	55·2	54·8	59·1	50·1	58·4	55·9	0·4	2·0	0·0	+ 3·2	ESE	Calm	1·5	0·0	0·6	5	0·05
8	..	29·832	56·8	52·0	53·8	52·2	58·0	51·8	58·1	55·7	1·6	3·8	1·0	+ 2·0	Calm	NNE	0·0	0·0	0·0	55	0·33
9	..	30·053	56·2	50·0	51·8	49·4	60·5	47·2	57·9	55·7	2·4	4·0	0·8	+ 0·3	N	Calm	0·0	0·0	0·0	5	0·00
10	..	30·083	61·8	50·0	53·5	49·9	67·0	50·1	57·9	55·5	3·6	7·2	0·0	+ 2·2	Calm	Calm	0·0	0·0	0·0	10	0·00
11	..	29·871	59·8	49·0	54·5	54·1	60·0	40·0	57·4	54·9	0·4	1·0	0·0	+ 3·5	NE	Calm	0·0	0·0	0·0	5	0·30
12	In Equator	29·990	64·0	53·5	56·5	55·3	70·5	51·0	57·7	54·9	1·2	3·2	0·4	+ 3·7	Calm	Calm	0·0	0·0	0·0	0	0·00
13	Full. Perigee	30·054	62·7	48·1	54·3	53·9	75·5	38·7	57·5	54·7	0·4	4·4	0·0	+ 3·7	Calm	Calm	0·0	0·0	0·0	15	0·00
14	..	29·727	59·8	47·4	52·8	51·9	65·0	40·1	57·4	54·5	0·9	4·2	0·6	+ 2·4	E ; SE	SE	0·0	0·0	0·0	90	0·00
15	..	29·360	59·0	49·9	51·6	48·6	71·0	42·1	57·4	54·2	3·0	3·4	2·0	+ 1·4	SW	W	3·0	0·3	1·0	200	0·30
16	..	30·000	57·2	48·5	52·2	50·0	64·7	44·0	57·1	54·2	2·2	6·5	1·8	+ 2·3	NW	W	1·6	0·0	0·2	90	0·06
17	..	30·217	61·8	47·0	53·1	48·2	74·1	39·9	56·4	53·7	4·9	10·5	0·6	+ 3·3	Calm ; W	W ; Calm	0·0	0·0	0·0	30	0·00
18	Greatest Declination N.	30·209	59·0	45·0	50·8	45·7	75·0	46·0	55·9	53·7	5·1	9·9	0·0	+ 1·3	Calm	Calm	0·0	0·0	0·0	10	0·00
19	..	30·154	64·7	39·0	49·7	49·3	79·3	39·8	55·9	53·2	0·6	7·3	0·0	+ 0·6	ENE	ENE	0·5	0·0	0·0	45	0·00
20	Last Qr.	30·053	63·0	45·5	52·3	48·9	79·0	45·4	55·7	53·2	3·4	9·1	0·0	+ 3·3	ENE	Calm	0·0	0·0	0·0	35	0·00
21	..	30·124	63·5	44·0	53·7	50·4	82·0	35·2	55·7	53·2	3·3	10·1	0·5	+ 4·9	E	SE	0·0	0·0	0·0	25	0·00
22	..	30·211	66·2	43·5	53·0	50·3	82·0	33·5	55·4	53·2	3·6	12·2	0·4	+ 5·2	SE ; S	Calm	0·0	0·0	0·0	60	0·00
23	..	30·221	60·0	50·7	53·8	52·9	63·6	41·8	55·1	53·2	0·3	2·9	0·0	+ 5·4	NE	ENE	0·0	0·0	0·0	20	0·00
24	..	30·343	60·7	36·5	48·4	45·0	73·4	47·1	55·1	53·2	3·4	7·2	0·6	+ 0·2	NE ; Calm	Calm ; ESE	0·0	0·0	0·0	..	0·00
25	..	30·346	56·5	41·1	46·7	39·4	60·0	32·1	54·9	52·2	7·3	11·0	3·0	− 1·2	Calm	ENE	0·0	0·0	0·0	..	0·00
26	In Equator	30·291	55·0	32·7	42·0	40·7	67·0	24·5	54·9	51·7	1·3	10·0	0·7	− 5·7	Calm	NE ; Calm	0·0	0·0	0·0	20	0·00
27	Apogee	30·233	56·2	35·1	44·6	41·5	70·1	25·8	53·5	50·0	3·1	10·0	0·0	− 2·9	Calm ; NE	NE ; Calm	0·0	0·0	0·0	30	0·00
28	New	30·191	52·5	32·0	40·0	39·6	62·3	24·5	52·5	49·2	0·2	5·8	0·0	− 7·3	Calm	Calm	0·0	0·0	0·0	5	0·00
29	..	30·110	48·0	31·4	37·6	37·4	57·2	24·0	52·5	49·2	0·2	2·0	0·0	− 9·4	Calm	Calm	0·0	0·0	0·0	15	0·00
30	..	30·055	56·7	33·8	46·2	45·6	68·3	26·3	51·5	48·7	0·6	7·6	0·8	− 0·6	SW	NW ; Calm	1·0	0·0	0·0	125	0·00
31	..	30·034	56·7	45·6	52·2	51·6	56·8	33·1	51·5	49·6	0·6	2·6	0·2	− 5·7	Calm	Calm	0·0	0·0	0·0	50	0·34
Means	..	29·991	59·9	45·8	51·7	49·0	68·6	40·3	56·0	53·5	2·6	6·8	0·7	− 1·7	...	...	..	..	..	Sum 1425	Sum 1·58

BAROMETER READINGS.

The first minimum in the month was 29·558 on the 4th.

The first maximum in the month was 30·116 on the 10th; the absolute minimum ,, was 29·255 on the 15th.

The absolute maximum ,, was 30·371 on the 24th; the third minimum ,, was 29·992 on the 31st.

The range in the month was 1·116.

The mean for the month was 29·991, being 0·310 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 66°·2 on the 22nd; the lowest was 31°·5 on the 29th; and the range in the month was 34°·8.

The mean ,, of all the highest daily readings was 59°·9, being 2°·0 *higher* than the average of the preceding 16 years.

The mean ,, of all the lowest daily readings was 45°·8, being 2°·4 *higher* than the average of the preceding 16 years.

The mean daily range was 14°·1, being 0°·5 *lower* than the average of the preceding 16 years.

The mean for the month was 51°·7, being 1°·7 *higher* than the average of the preceding 16 years.

MONTH and DAY. 1856.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.		CLOUDS AND WEATHER. P.M.	
Oct. 1	s	s	10, h.-r	: 5, cu, ci.-cu	5, ci.-cu, ci.-s	
2	s	o	5, ci.-cu	: 10	5, li.-cl	: 10, m.-r
3	w	o	10	: 10, shs.-r	5, cu, ci.-cu	
4	o	o	10, r, st.-w		10	: 10, f.-r
5	o	o	10, r		10	: 10, shs.-r, l
6			10, f	: 10, r	10	: 10, st.-w
7			10, m.-r		10, th.-r, f	
8			10, r		10, r	
9			10		10	
10			10, cu, li.-cl	: 5	5	: 5, ci.-s, li.-cl
11			10, r		10	: 10, cu, r
12			10, h.-r	: 10	10	: 10, f, li.-cl
13		: w	10, f		5, cu, ci.-cu, li.-cl	: cu
14	o	w	10		10	: 10, st.-w, r
15	w : s	o	10, r, r	: 10	10, h.-r	
16			10	: 10, th.-r	10, r	: 10, f
17	: w	m : o	5, li.-cl		10, cu, ci.-cu, li.-cl	
18	o	o	5, ci.-cu, li.-cl		5, li.-cl	: cu, f
19	o	m	cu, f		5, cu, li.-cl, v	: cu
20	w : m	m	10		2, li.-cl	: cu, f
21			10, v		7, li.-cl	: cu
22		w	cu	: 7	5, ci.-cu, ci	: cu, ms
23			10, f		10, f	
24		w : s	10		10	
25	m	o	10		7, ci.-cu	: cu
26	m	w	5, f		8, ci.-cu	: cu
27	w	w	4, li.-cl		4, li.-cl	: cu
		o				
28	o	o	10, th.-f	: o	cu	: 10, th.-f
29	w	w : o	10, th.-f		10, th.-f	
30	o	o	7		7, cu, li.-cl	: cu
31	o	o	10, r		10, r	

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 58°·0 on the 11th; and the lowest was 35°·8 on the 28th.

The mean [illegible] was 49°·0, being 3°·5 *under* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0·348, being 0·043 *inches* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was [illegible], being [illegible] than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 91 (that of Saturation being represented by 100), being 5 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 543 grains, being 4 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 7·5.

WIND.

The proportions were of N. 4, S. 9, W. 9, and E. 9.

RAIN.

Fell on 10 days in the month, amounting to 1·6, as measured in the simple cylinder gauge partly sunk below the ground; being [illegible] than the average of the preceding 16 years.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Shade as shown by a Self-Registering Thermometer read at 9 P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h. 30m. P.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h. A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h. A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Mean of 24 Hours.	Wind. Horizontal Movement of the Air in each Day.	Rain in Inches read at 9 P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
Nov. 1	..	30·245	53·7	46·0	49·6	48·8	67·3	47·9	51·5	49·2	0·8	2·4	0·8	+ 3·1	Calm	Calm	0·0	0·0	0·0	..	0·00
2	Greatest Declination S.	30·157	57·7	47·0	50·7	45·5	70·0	44·0	51·5	49·6	5·2	9·4	1·5	+ 4·6	Calm	Calm	0·0	0·0	0·0	15	0·00
3	..	30·093	53·0	40·0	44·8	40·8	..	34·8	51·0	49·7	4·0	9·8	0·2	— 1·1	SW	SW	0·0	0·0	0·0	25	0·00
4	..	30·133	51·8	36·7	43·1	41·4	..	28·0	51·5	49·2	1·7	5·4	0·0	— 2·6	WSW	NE	0·0	0·0	0·0	10	0·01
5	First Qr.	30·293	50·5	37·0	42·5	37·3	..	30·1	50·0	48·8	5·2	9·9	0·2	— 2·9	NE	E	0·0	0·0	0·0	35	0·01
6	..	30·388	49·0	29·0	37·7	33·2	..	18·4	49·5	47·9	4·5	10·3	1·1	— 7·5	E	E	2·0	0·0	0·1	35	0·00
7	..	30·455	48·6	34·0	42·8	42·0	50·0	22·6	50·5	48·3	0·8	4·2	0·0	— 2·1	ENE	NE	0·0	0·0	0·0	25	0·00
8	..	30·135	46·2	40·2	42·4	38·8	46·0	34·0	49·1	47·1	3·6	4·6	2·2	— 2·4	Calm	N	0·0	0·0	0·0	15	0·21
9	In Equator	29·895	49·8	34·9	41·9	40·6	53·0	24·0	48·5	46·1	1·3	5·5	0·0	— 2·6	NW	W	0·0	0·0	0·0	115	0·00
10	..	29·356	45·8	35·6	38·5	32·7	53·8	27·2	48·0	45·5	5·8	8·1	1·2	— 5·8	W; N	N	0·0	0·0	0·0	215	0·04
11	Perigee	29·253	43·0	30·6	36·7	32·8	48·0	22·1	46·7	44·6	3·9	9·7	0·8	— 7·3	NNW	NNE	4·0	0·0	0·4	185	0·04
12	Full	29·600	43·8	34·7	39·1	34·1	51·8	28·2	45·5	44·1	5·0	7·6	5·0	— 4·6	NE	NE; N	3·0	0·0	1·0	190	0·01
13	..	29·741	43·2	35·7	39·4	33·1	47·0	32·2	45·5	43·7	6·3	8·6	4·6	— 4·0	N	W	0·0	0·0	0·0	130	0·00
14	..	29·804	43·6	33·2	36·5	25·7	50·0	28·1	44·7	43·0	10·6	11·3	8·4	— 6·9	NNE	N	2·0	0·0	0·1	135	0·00
15	Greatest Declination N.	29·895	42·3	29·0	36·2	33·3	47·8	19·8	43·7	42·1	2·9	6·7	1·3	— 6·7	NNW	W	0·0	0·0	0·0	105	0·03
16	..	30·100	42·9	30·2	35·1	32·6	57·2	20·5	43·5	41·7	2·5	4·8	0·0	— 7·7	N; Calm	Calm	0·0	0·0	0·0	5	0·00
17	..	30·029	42·2	23·8	34·8	34·8	44·0	16·0	43·0	42·5	0·0	1·3	0·0	— 7·6	Calm	SSW	0·0	0·0	0·0	50	0·00
18	..	29·997	48·5	32·3	41·0	40·3	54·0	32·9	42·5	39·4	0·7	5·5	0·2	— 1·4	SW	N	0·0	0·0	0·0	50	0·00
19	Last Qr.	29·944	49·5	34·9	42·1	41·6	50·4	30·0	42·5	41·6	0·5	5·0	0·2	— 0·1	NW; SW	NW	0·0	0·0	0·0	115	0·13
20	..	29·908	51·4	38·9	46·7	42·9	51·2	32·2	42·7	42·1	3·8	6·4	3·2	+ 4·7	NW	N	2·0	0·0	0·1	120	0·00
21	..	30·114	51·3	43·1	46·4	44·6	52·0	33·2	42·7	42·6	1·8	3·2	1·0	+ 4·5	N	Calm	0·0	0·0	0·0	45	0·00
22	In Equator	30·082	52·6	45.4	49·8	44·0	54·6	40·7	43·5	43·0	5·8	8·0	4·6	+ 8·0	NW	NW	0·0	0·0	0·0	160	0·00
23	Apogee	29·932	58·0	47·0	51·7	47·3	64·5	35·0	45·0	43·7	4·4	8·4	2·3	+10·0	W	WNW	3·0	0·0	0·2	240	0·00
24	..	29·698	55·2	43·0	48·8	41·5	57·0	43·5	45·3	44·1	7·3	11·6	5·2	+ 7·2	WNW	NW	7·0	0·0	2·0	225	0·00
25	..	29·911	40·0	33·0	34·6	24·8	52·5	30·0	45·5	44·6	9·8	12·5	7·3	— 7·1	NNW; NNE	N; Calm	4·0	0·0	0·4	55	0·00
26	..	29·483	40·0	28·9	35·0	34·3	40·0	25·5	45·3	43·7	0·7	0·3	0·0	— 6·8	Calm; S	Calm	0·0	0·0	0·0	95	0·47
27	New	29·530	48·0	35·3	40·7	38·9	53·2	30·9	44·5	43·4	1·8	3·8	0·9	— 1·2	W	NW	0·0	0·0	0·0	115	0·03
28	..	29·588	40·0	30·8	35·2	28·7	42·2	30·4	44·5	43·0	6·5	9·0	4·6	— 6·7	W	NE	0·0	0·0	0·0	30	0·00
29	Greatest Declination S.	29·600	36·0	24·3	29·3	26·0	36·0	15·0	44·0	42·3	3·3	7·2	1·0	—12·6	NW	NW	0·0	0·0	0·0	105	0·00
30	..	29·701	34·9	19·4	28·5	22·7	38·1	9·3	42·5	40·3	5·8	8·9	3·8	—13·3	NW	N	3·0	0·0	0·2	90	0·00
Means	..	29·902	47·1	35·1	40·7	36·8	51·1	28·8	46·1	44·6	3·9	7·0	2·0	— 2·7	...	...	..	..	..	Sum 2735	Sum 1·02

BAROMETER READINGS.

The first maximum in the month was 30in·266 on the 1st; the first minimum in the month was 30in·074 on the 3rd.
The absolute maximum ,, was 30in·476 on the 7th; the absolute minimum ,, was 29in·220 on the 11th.
The third maximum ,, was 30in·140 on the 16th; the third minimum ,, was 29in·444 on the 26th.
The range in the month was 1in·256.
The mean for the month was 29in·902, being 0in·157 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·0 on the 23rd; the lowest was 19°·4 on the 30th; and the range in the month was 38°·6.
The mean ,, of all the highest daily readings was 47°·1, being 2°·4 *lower* than the average of the preceding 16 years.
The mean ,, of all the lowest daily readings was 35°·1, being 3°·0 *lower* than the average of the preceding 16 years.
The mean daily range was 12°·0, being 0°·6 *higher* than the average of the preceding 16 years.
The mean for the month was 40°·7, being 2°·9 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Nov. 1	m	w	10, h	10, h : 10, f
2	s	s	0, h	7, ci.-cu : 0, h
3	s	v	10	10
4	m	m : o	10, li.-cl, h	10, th.-f : 10, f, r
5	w : s	s	10, cu, li.-cl, sh.-r	5, li, cl : 5, ci.-cu, ci.-s
6	s	s	4, ci, li.-cl	4, s, ci, li.-cl
7	w	w	10, r	10 : 10, f
8	w	w	10, li.-cl, h, f	10, r : 10, v
9	o	o	10, th.-f	10, f
10	w	m	9, h.-r, s	9
11	w	m	10 : 5	10, r
12	w	m	7, cu, li.-cl	7, cu : 10, r
13	w	: m	7, ci.-cu, li.-cl	10, f
14	w	o : w	0, h	0
15	w	o : s N, sps, g cur	5, ci.-cu	5, ci.-cu, li.-cl : 10, h.-r
16	s	m	1, li.-cl, f	0, f
17	s	ss, sps, g cur	10	10, f : 10, th.-f
18	ss, sps, g cur	s	10, r, f	v, m.-r : 10, f
19	m	s	10, r	8, th.-r : 2, f
20	o	o	10, f	10 : 10, v
21	ss	ss	10, f, sl.-r	10, th.-f
22	s	m	10, f	10
23	s	m	10	10
24	s	s	10	10, v, li.-cl : 7, r
25	s	s	10	0 : 10 f
26	o	m	10, r, sn, f	10, oc.-r
27	s	s	10	10, h.-r : 0, h
28	ss, sps, g cur	ss, sps, g cur	10	10
29	ss, sps, g cur	ss, sps, g cur	5	0, : 10, f
30	s, sps	s, sps	3, ci.-cu, ci.-s, s	3, ci.-cu, s : 0, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 50°·3 on the 1st; and the lowest was 21°·9 on the 30th.
The mean " was 36°·8, being 3°·5 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·218, being 0ⁱⁿ·040 *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2·5, being 0ᵍʳ·4 *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being 2 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 554 grains, being 7 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·5.

WIND.

The proportions were of N. 14, S. 2, W. 10, and E. 5.

RAIN.

Fell on 10 days in the month, amounting to 1ⁱⁿ·0, as measured in the simple cylinder gauge partly sunk below the ground; being 1ⁱⁿ·3 *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest of the Single Observations of Dew Point.	Lowest of the Single Observations of Dew Point.	In the Water of the Thermometer Observations by Self-Registering Thermometer, read off at 9h A.M.	Difference between the Mean Dew Point Temperature and Air Temperature. Highest.	Lowest.	Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 16 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Hours.	Mean Velocity in Miles per Hour for the 24 Hours.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°	°			lbs	lbs	lbs		in.
Dec. 1	..	29·805	34·8	22·8	29·1	25·4	37·0	13·7	40·5	38·6	3·7	5·9	2·3	−12·6	N	NW	0·0	0·0	0·0	55	0·00
2	..	29·831	32·2	20·5	27·7	23·7	33·0	11·3	38·0	38·0	4·0	7·2	2·5	−13·9	W	SW	..	..	..	62	0·00
3	..	29·697	38·0	24·0	31·3	30·4	34·5	17·0	38·5	37·5	0·9	6·2	0·3	−10·2	SW	NE	..	..	..	15	0·15
4	..	29·900	39·8	25·5	31·9	31·9	39·8	20·5	38·5	37·1	0·0	1·7	0·3	− 9·5	Calm	Calm ; S	..	..	..	90	0·10
5	First Qr.	29·423	54·5	37·1	47·6	47·0	55·0	28·5	40·0	37·5	0·6	2·6	0·4	+ 6·3	SE	SW	..	..	..	300	0·00
6	In Equator	29·370	56·0	45·7	52·2	48·0	56·0	40·2	42·5	40·3	4·2	6·4	2·8	+11·1	SW	SW	..	..	..	465	0·05
7	..	29·439	58·9	50·0	56·0	50·1	58·0	46·4	45·5	42·9	5·9	9·5	3·9	+15·0	SW	SW	..	..	..	380	0·04
8	..	29·411	58·4	52·0	55·3	48·6	54·2	47·0	47·5	44·0	6·7	9·1	5·2	+14·5	SW	S	..	..	..	300	0·00
9	Perigee	29·274	58·8	51·5	55·1	47·1	58·5	46·5	49·0	45·7	8·0	11·2	4·8	+14·3	SW ; S	SW	11·0	..	..	300	0·03
10	..	29·209	55·9	49·0	51·9	48·0	58·0	45·1	49·5	45·7	3·9	6·0	1·6	+11·3	SW	SW	5·0	0·0	1·3	195	0·14
11	Full	29·336	52·0	44·8	47·3	44·1	56·0	39·7	49·5	46·9	3·2	5·5	0·0	+ 6·8	SW ; W	SW ; S	3·0	0·0	0·2	215	0·15
12	Greatest Declination S	29·067	53·3	44·2	48·7	43·8	58·0	38·9	49·5	46·6	4·9	6·8	4·0	+ 8·4	SW	SW	7·5	0·0	1·5	235	0·35
13	..	28·798	47·8	41·6	44·4	41·6	50·7	34·2	49·1	46·4	2·8	3·6	0·9	+ 4·2	SW	SW	2·0	0·0	0·1	130	0·07
14	..	29·562	47·0	41·0	43·4	39·8	49·5	32·0	48·3	45·5	3·6	4·8	2·6	+ 3·4	N	N	0·0	0·0	0·0	110	0·00
15	..	30·235	44·2	33·8	37·1	32·6	45·8	26·5	46·5	43·9	4·6	6·2	1·2	− 2·7	N	NNE	0·0	0·0	0·0	35	0·00
16	..	30·444	37·2	24·3	30·5	29·5	38·7	15·3	44·5	42·1	1·0	3·8	0·0	− 9·1	Calm	Calm	0·0	0·0	0·0	5	0·00
17	..	30·240	40·8	24·0	34·3	34·3	39·3	17·0	43·7	42·1	0·0	2·0	0·0	− 5·1	Calm	WSW	0·0	0·0	0·0	85	0·01
18	..	29·792	48·0	40·0	44·4	43·8	50·0	25·0	43·5	41·6	0·6	1·7	0·2	+ 5·1	SW	NNE	2·0	0·0	0·1	105	0·02
19	Last Quarter in Equator	30·284	46·0	36·0	38·6	35·1	47·8	28·0	43·5	41·1	3·5	5·7	1·0	− 0·5	NNE	Calm	1·5	0·0	0·0	70	0·00
20	..	30·342	46·8	37·8	43·6	40·7	46·1	27·9	43·5	41·3	2·9	3·5	2·6	+ 4·7	W	W	0·0	0·0	0·0	110	0·00
21	Apogee	30·287	46·5	42·7	44·1	38·9	46·5	40·0	41·5	40·3	5·2	5·7	3·7	+ 5·4	W	W	0·0	0·0	0·0	160	0·00
22	..	29·898	46·0	41·9	44·1	39·7	47·0	42·2	41·5	40·7	4·4	5·9	3·1	+ 5·6	W	W	0·0	0·0	0·0	130	0·00
23	..	29·893	45·3	32·0	36·0	32·2	45·6	30·7	41·5	41·1	3·8	4·6	0·7	− 2·4	NNE	Calm	0·0	0·0	0·0	50	0·00
24	..	29·103	43·7	31·8	37·9	36·2	46·0	24·2	41·0	40·7	1·7	6·8	0·5	− 0·3	SW	W	0·0	0·0	0·0	95	0·13
25	..	28·763	31·2	26·5	28·2	27·4	33·0	16·8	41·0	40·5	0·8	1·0	0·0	− 9·8	W ; Calm	NE	0·0	0·0	0·0	5	0·00
26	..	28·798	33·5	24·6	30·4	30·0	36·0	16·7	40·5	39·8	0·4	1·3	0·0	− 7·4	Calm	N	0·0	0·0	0·0	70	0·00
27	Greatest Dec. S Sun	29·194	34·2	26·0	29·2	25·7	35·0	19·8	39·5	38·4	3·5	5·6	1·3	− 8·4	NW	NW ; Calm	1·5	0·0	0·0	20	0·00
28	..	29·516	31·5	18·5	25·7	24·5	32·0	18·0	39·3	37·4	1·2	5·9	0·8	−11·3	Calm	WSW	0·0	0·0	0·0	65	0·00
29	..	29·965	39·5	25·4	33·2	29·8	39·8	15·1	39·5	37·4	3·4	5·9	2·3	− 4·1	SW	W	0·0	0·0	0·0	170	0·00
30	..	30·081	46·5	35·5	42·1	41·9	46·5	21·7	38·5	36·9	0·2	1·8	0·0	+ 4·7	W	WSW	0·0	0·0	0·0	150	0·08
31	..	30·077	49·0	43·0	46·3	42·6	50·0	33·0	39·1	37·4	3·7	5·7	2·0	+ 8·7	WSW	WSW	0·0	0·0	0·0	200	0·00
Means	..	29·645	45·1	35·3	40·2	37·2	46·1	28·3	43·0	41·1	3·0	5·1	1·6	+ 0·7	...	...	..	..	..	434	Sum 1·32

BAROMETER READINGS.

The first maximum in the month was 29″·960 on the 4th; the absolute minimum in the month was 28″·733 on the 13th.
The absolute maximum ,, was 30″·475 on the 16th; the second minimum ,, was 28″·749 on the 26th.
The third maximum ,, was 30″·126 on the 31st.
The range in the month was 1″·742
The mean for the month was 29″·645, being 0″·171 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·9 on the 7th; the lowest was 18°·5 on the 28th; and the range in the month was 40°·4.
The mean ,, of all the highest daily readings was 45°·1, being *the same* as the average of the preceding 16 years.
The mean ,, of all the lowest daily readings was 35°·3, being 0°·3 *lower* than the average of the preceding 16 years.
The mean daily range was 9°·8, being 0°·4 *greater* than the average of the preceding 16 years.
The mean for the month was 40°·2, being *the same* as the average of the preceding 16 years.

Osler's Anemometer. The pressure apparatus was under repair from December 2 to December 9.

MONTH and DAY, 1856.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Dec. 1	ss, sps, g cur	ss, sps, g cur	7, ci.-cu, li.-cl : o	7, li.-cl : o
2	ss, sps, g cur	ss, sps, g cur	10	2 : [illegible]
3	o	o	10, su, r	10, su, r : o, f
4	ss, sps, g cur	ss, sps, g cur	10, cu, ci.-cu, li.-cl	10 : 10, r
5	o	m	10, m.-r	10, r, f : [illegible], sqs, w, r
6	m	s	10	10, h.-r, st.-w
7	m	m	10, r, st.-w	10, h.-sqs, oc.-r : 5, st.-w, lu.-ha
8	m	m	10, st.-w	10 : 10, h.-sqs, r
9	m	m	7	10, st.-w
10	m	m	10	7 : 10, r
11	m	m	v, oc.-r	o : 10, r
12	s	s	o	10, ci, r : 10, h.-r
13	s, sps	s, sps	10, r	10 : [illegible], f
14	s	s	o, h	o : 10
15	ss, g cur	ss, sps, g cur	5, li.-cl	5, li.-cl
16	s	ss, sps, g cur	10, th.-f	5, li.-cl : o, f
17	ss, g cur	ss, g cur	10, li.-cl	10
18	m	m	10, r	10 : 10, m.-r
19	ss, g cur	v : ss, g cur	o, h	v, h : f
20	s	s	10, f	10 : o
21	s	s	10	10
22	s	s, g cur	10	10
23	s	ss, g cur	10	7, li.-cl : 10
24	ss, g cur	ss, g cur	10, r : 5	5, li.-cl : o, f, r
25	s	s : ss, g cur	7, f	7 : o, h
26	s	ss, g cur	10, cu, ci.-cu, li.-cl	10 : o
27	ss, g cur	ss, g cur	7 su	7 : o
28	ss, sps, g cur	ss, sps, g cur	o, f, h.-f	5 : o, h
29	ss, g cur	ss, g cur	7, li.-cl	10
30	s	s	10, r	10
31	s	s	o	10

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 52°·6 on the 6th; and the lowest was 16°·8 on the 28th.

The mean ,, was 37°·2, being o°·3 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was o^{in}·222, being o^{in}·004 *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·6, being the same as the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 90 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 550 grains, being 2 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by o and a cloudy sky by 10, was 7·4.

WIND.

The proportions were of N. 7, S. 9, W. 14, and E. 1.

RAIN.

Fell on 13 days in the month, amounting to 1^{in}·3, as measured in the simple cylinder gauge partly sunk below the ground; being o^{in}·2 *less* than the average fall of the preceding 16 years.

1856. Month, Day, and Hour.	Readings of Barometer corrected to 32° Fahr.	Readings of Dry Thermometer.	Readings of Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0—10.	Ozone. 0—10.
d h	in.	°	°	°		gr.	gr.		gr		lbs.		
Aug. 24. 12	29·927	58·2	57·5	57·0	·465	5·2	0·3	95	534	WSW	0·0	4	..
13	29·927	57·6	57·3	57·0	·465	5·2	0·1	98	534	WSW	0·0	8	..
14	29·921	57·6	57·3	57·0	·465	5·2	0·1	98	534	WSW	0·0	9	..
15	29·910	57·8	57·3	56·8	·462	5·2	0·2	97	534	WSW	0·0	10	..
16	29·905	57·8	57·8	57·8	·479	5·3	0·0	100	534	WSW	0·0	9	..
17	29·904	56·1	55·5	55·0	·433	4·9	0·1	96	536	SW	0·0	8	..
18	29·905	56·2	55·4	54·7	·431	4·8	0·3	94	536	SW	0·0	9	..
19	29·893	58·1	56·5	55·1	·434	4·9	0·6	90	534	SW	0·0	10	..
20	29·882	60·3	58·4	56·8	·462	5·2	0·6	88	531	SW	0·0	10	..
21	29·867	62·7	59·8	57·3	·470	5·3	1·1	82	528	SW	1·0	10	..
22	29·860	62·5	60·0	57·9	·480	5·3	1·0	85	528	SW	1·8	10	..
23	29·852	62·6	60·3	58·3	·487	5·4	0·9	86	528	SW	1·8	10	..
Aug. 25. 0	29·833	63·3	61·2	59·5	·509	5·6	0·8	88	527	SW	1·0	10	..
1	29·818	64·1	61·7	59·7	·512	5·6	1·0	85	526	SW	1·2	10	..
2	29·803	63·8	61·5	59·6	·511	5·6	0·9	87	526	SW	2·0	10	..
3	29·791	62·8	61·3	60·0	·518	5·7	0·6	91	526	SW	0·6	10	..
4	29·766	62·9	60·5	58·6	·492	5·4	1·0	86	526	SW	2·1	10	..
5	29·741	63·7	61·1	58·9	·498	5·4	1·1	85	525	SW	2·1	10	..
6	29·737	62·8	60·3	58·3	·487	5·3	1·0	85	526	SW	2·0	10	..
7	29·717	62·3	60·2	58·5	·491	5·4	0·8	88	526	SW	1·8	10	..
8	29·707	62·1	60·3	58·8	·496	5·5	0·7	89	526	SW	1·5	10	..
9	29·699	61·7	60·6	59·6	·507	5·7	0·5	93	526	SW	1·8	10	..
10	29·703	60·2	60·2	60·2	·522	5·8	0·0	100	527	SW	0·0	10	..
11	29·695	60·7	60·7	60·7	·531	5·9	0·0	100	527	WSW	0·0	10	..
Aug. 31. 12	29·767	55·4	54·5	53·6	·412	4·7	0·3	94	533	Calm	0·0	10	0
13	29·763	53·9	53·7	53·4	·409	4·6	0·2	98	536	Calm	0·0	9	0
14	29·759	52·9	52·8	52·7	·399	4·4	0·0	99	537	Calm	0·0	0	0
15	29·762	51·7	51·7	51·7	·384	4·3	0·0	100	538	Calm	0·0	0	0
16	29·754	49·5	49·5	49·5	·355	4·1	0·0	100	540	Calm	0·0	0	0
17	29·749	48·3	48·3	48·3	·339	3·8	0·0	100	542	Calm	0·0	0	0
18	29·745	48·4	48·4	48·4	·340	3·8	0·0	100	542	Calm	0·0	6	4
19	29·744	51·6	51·5	51·4	·379	4·3	0·0	99	538	Calm	0·0	7	2
20	29·752	56·1	52·7	49·4	·356	4·0	1·0	78	533	Calm	0·0	4	0
21	29·729	61·2	56·2	51·7	·384	4·3	1·8	72	528	Calm	0·0	6	0
22	29·722	61·7	55·7	49·6	·356	4·1	2·1	68	528	Calm	0·0	7	0
23	29·708	66·2	57·0	49·4	·356	3·9	3·2	55	523	Calm	0·0	8	2
Sept. 1. 0	29·696	67·4	57·7	50·1	·362	4·0	3·4	53	521	Calm	0·0	8	0
1	29·625	66·9	58·4	51·6	·382	4·2	3·1	58	520	Calm	0·0	8	0
2	29·655	65·7	57·5	50·8	·371	4·1	2·8	57	522	Calm	0·0	9	1
3	29·639	65·3	56·5	49·3	·352	3·9	3·0	56	522	Calm	0·0	9	1
4	29·622	62·7	55·7	49·4	·353	4·0	2·2	62	525	Calm	0·0	7	1
5	29·600	62·2	55·0	48·9	·346	3·9	2·4	61	525	Calm	0·0	9	1
6	29·594	60·3	54·8	50·0	·361	4·0	1·9	68	527	Calm	0·0	7	1
7	29·592	57·8	54·8	50·0	·361	4·3	1·0	81	529	Calm	0·0	10	2
8	29·606	55·4	52·9	50·5	·367	4·2	0·9	84	532	Calm	0·0	8	2
9	29·607	53·7	50·8	48·0	·335	3·7	0·9	82	534	Calm	0·0	10	2
10	29·617	53·5	51·0	48·5	·342	3·9	0·5	83	534	Calm	0·0	10	2
11	29·627	52·5	50·5	48·5	·342	3·8	0·3	86	535	Calm	0·0	10	2
Sept. 7. 12	29·751	53·3	52·0	50·7	·370	4·2	0·4	91	536	Calm	0·0	0	0
13	29·753	52·9	51·8	50·7	·370	4·1	0·4	93	537	Calm	0·0	1	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
Aug. 24. 12	40	40	..	..	Clouds of different densities near the horizon.
13	40	40	..	..	Clouds of different densities almost cover the sky.
14	30	30	..	..	Clouds of different densities almost cover the sky; thin rain falling.
15	30	30	..	..	Clouds of different densities almost cover the sky.
16	20	20	..	..	Dark clouds near the horizon; light clouds in the zenith.
17	30	30	..	..	Light clouds almost cover the sky.
18	40	40	..	..	Clouds of different densities almost cover the sky.
19	60	40	..	..	Generally overcast.
20	60	40	..	..	Clouds of different densities cover the sky.
21	80	40	..	..	Overcast; strong breeze.
22	40	40	..	..	Overcast.
23	10	10	..	..	Overcast; strong breeze; thin rain falling.
			..		
Aug. 25. 0	20	20	..	..	Overcast; slight rain falls every now and then.
1	25	30	..	..	Overcast; slight rain falls every now and then; strong wind.
2	18	30	..	..	Overcast; slight rain falls every now and then; strong wind.
3	15	20	..	..	Overcast; rain has occasionally fallen since 2^h.
4	60	40	..	..	Overcast; rain has generally fallen since 3^h.
5	23	30	..	..	Overcast; strong gusts of wind.
6	35	40	..	..	Overcast; strong gusts of wind.
7	25	30	..	..	Overcast; strong gusts of wind.
8	20	30	..	..	Overcast; strong gusts of wind.
9	20	30	..	..	Overcast; strong gusts of wind; misty rain falling.
10	15	20	..	..	Overcast; strong gusts of wind; thick rain falling fast.
11	10	15	..	..	Overcast.
Aug. 31. 12	Out of range	40	..	..	Overcast; thin rain falling.
13	80	40	..	..	Generally overcast.
14	80	40	..	..	Cloudless.
15	18	30	..	..	Cloudless.
16	12	20	..	..	Cloudless.
17	25	30	..	..	Cloudless.
18	23	30	..	..	Thin stratus; the Sun's place is visible.
19	45	40	..	..	Overcast; thick fog.
20	75	40	..	..	Stratus and cirrus.
21	50	40	..	..	Light clouds.
22	40	40	..	..	Light clouds scattered all over the sky.
23	50	40	..	..	Cumulus near the horizon; light clouds in the zenith.
Sept. 1. 0	30	30	..	..	Cumulus near the horizon; cirrus in the zenith.
1	20	20	..	..	Cumulus and cirro-cumulus scattered over the sky.
2	10	10—	..	..	Cumulus and light clouds cover the greater portion of the sky.
3	20	20—	..	..	Clouds of different densities almost cover the sky.
4	30	30	..	..	Cumulus and cirro-cumulus.
5	30	30	..	..	Cumulus and cirro-cumulus.
6	Out of range	40—	..	..	Clouds of different densities.
7	Out of range	40—	15 to A	A volley of sparks at $0^{in}.04$	Very dark, thunder and lightning every few seconds till 8^h; the electricity continually changing from positive to negative; rain occasionally falls.
8	Out of range	40	10 to B	..	Clear in the West, clouds in other directions; distant thunder.
9	Out of range	40	10 to B	A volley of sparks at $0^{in}.03$	Overcast; flashes of lightning.
10	Out of range	40	5 to B	..	Overcast; heavy rain falling.
11	Out of range	40	3 to B	..	Overcast; thin rain falling.
Sept. 7. 12	0	0	..	..	Cloudless; slight haze.
13	5	10	..	..	Light clouds here and there.

1856. Month, Day, and Hour.	Readings of Barometer corrected to 32° Fahr.	Readings of Dry Thermometer.	Readings of Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0—10.	Ozone. 0—10.
	in.	°	°	°		gr	gr				lbs		
Sept. 7. 14	29·756	50·2	50·0	49·8	·358	4·1	0·1	99	539	Calm	0·0	0	0
15	29·759	47·8	44·0	30·8	..	..	..	..	543	Calm	0·0	0	0
16	29·795	48·6	48·4	48·2	·338	3·8	0·1	99	542	Calm	0·0	0	0
17	29·772	47·5	47·5	47·5	·329	3·7	0·0	100	543	Calm	0·0	0	0
18	29·781	47·5	47·3	47·1	·324	3·8	0·1	99	542	Calm	0·0	0	2
19	29·785	49·3	49·0	48·7	·344	3·9	0·1	98	540	Calm	0·0	10	0
20	29·793	53·5	52·4	51·4	·379	4·2	0·3	93	536	Calm	0·0	10	0
21	29·793	57·6	55·6	53·7	·413	4·7	0·7	87	532	Calm	0·0	10	0
22	29·798	63·9	55·4	48·3	·339	3·7	2·9	57	527	Calm	0·0	10	0
23	29·795	64·9	59·1	54·1	·419	4·6	2·2	68	525	Calm	0·0	10	0
Sept. 8. 0	29·787	67·1	59·3	53·0	·403	4·5	2·8	62	524	Calm	0·0	4	0
1	29·778	65·0	57·8	51·7	·384	4·2	2·6	62	524	Calm	0·0	10	0
2	29·773	65·9	58·3	52·1	·389	4·2	2·7	61	523	Calm	0·0	10	0
3	29·769	66·0	59·5	54·2	·421	4·7	2·2	66	523	Calm	0·0	10	1
4	29·770	62·7	58·4	54·9	·431	4·8	1·5	75	526	Calm	0·0	10	3
5	29·768	61·7	57·3	53·7	·413	4·6	1·1	77	528	Calm	0·0	9	6
6	29·773	60·3	56·6	53·3	·407	4·6	1·3	77	529	Calm	0·0	10	4
7	29·778	58·9	57·2	55·6	·443	5·0	0·6	90	530	Calm	0·0	9	0
8	29·786	55·8	54·8	53·9	·416	4·7	0·3	93	535	Calm	0·0	3	0
9	29·789	54·8	53·6	52·2	·391	4·4	0·3	92	536	Calm	0·0	7	0
10	29·783	53·4	52·6	51·6	·382	4·4	0·3	94	537	Calm	0·0	4	0
11	29·784	52·9	52·8	52·6	·397	4·5	0·1	99	538	Calm	0·0	5	0
Sept. 14. 12	30·114	46·2	44·8	43·5	·283	3·3	0·4	86	551	Calm	0·0	0	0
13	30·114	45·6	44·4	43·3	·280	3·2	0·3	92	552	Calm	0·0	4	0
14	30·114	46·6	45·2	43·7	·285	3·4	0·3	93	551	Calm	0·0	4	1
15	30·107	47·3	45·8	44·2	·290	3·3	0·4	90	550	Calm	0·0	10	2
16	30·091	49·2	44·8	40·1	·248	2·9	1·1	71	548	Calm	0·0	9	4
17	30·089	50·5	49·8	49·1	·349	3·9	0·3	96	546	Calm	0·0	10	5
18	30·093	51·7	51·2	50·7	·370	4·2	0·2	96	544	Calm	0·0	9	7
19	30·100	54·9	53·8	52·7	·403	4·5	0·4	93	541	Calm	0·0	9	7
20	30·099	56·5	54·6	52·7	·399	4·5	0·6	87	539	Calm	0·0	10	7
21	30·103	60·3	56·8	53·8	·415	4·6	1·3	79	535	Calm	0·0	8	6
22	30·079	63·4	57·1	51·9	·386	4·3	2·2	66	532	Calm	0·0	10	2
23	30·071	63·1	57·1	51·9	·386	4·3	2·1	67	532	SW	0·0	10	3
Sept. 15. 0	30·037	66·8	58·5	51·8	·385	4·3	2·8	60	528	SW	1·4	7	2
1	30·026	64·9	57·2	50·8	·371	4·0	2·8	60	530	SW	1·2	10	1
2	30·017	65·4	59·8	55·2	·436	4·8	2·1	69	528	SW	1·2	10	6
3	29·998	66·4	61·0	56·7	·461	5·1	2·1	71	527	SW	1·3	8	8
4	29·991	64·8	61·0	57·9	·480	5·2	1·5	78	528	WSW	0·0	10	9
5	29·993	64·2	58·0	52·8	·400	4·5	2·2	66	530	W	1·8	5	9
6	30·005	62·9	54·7	47·7	·331	3·7	2·1	57	532	WNW	1·0	10	9
7	30·022	57·6	52·8	48·4	·340	3·8	1·6	71	537	WNW	0·0	5	6
8	30·040	54·9	51·0	47·3	·327	3·7	0·6	76	540	Calm	0·0	5	0
9	30·038	53·4	50·0	46·6	·318	3·6	1·0	78	541	Calm	0·0	6	0
10	30·026	54·1	51·8	49·6	·353	4·0	0·8	84	541	WSW	0·0	1	3
11	30·022	55·7	53·2	50·9	·373	4·2	0·7	84	539	WSW	0·0	10	4
Sept. 21. 12	29·486	50·5	50·4	50·3	·365	3·8	0·1	98	535	SW	0·0	10	10
13	29·477	48·7	48·6	48·4	·340	3·9	0·1	98	537	SW	0·0	3	10
14	29·465	48·1	48·0	47·9	·334	3·9	0·1	99	537	SW	0·0	7	10
15	29·458	48·3	48·1	47·9	·334	3·7	0·1	99	537	SW	0·0	7	10
16	29·449	48·8	48·5	48·2	·338	3·8	0·1	97	536	SSW	0·0	7	10
17	29·423	48·3	48·1	47·9	·334	3·7	0·1	99	537	SW	0·0	8	10
18	29·409	48·0	47·6	47·2	·325	3·6	0·2	97	536	SW	0·0	3	10
19	29·406	48·0	47·6	47·2	·325	3·6	0·2	97	536	SW	0·0	0	10
20	29·400	52·5	51·3	49·7	·355	4·0	0·5	90	531	SW	0·0	0	10
21	29·392	58·6	53·8	49·5	·355	3·9	1·6	72	525	SW	0·0	2	10

Sept. 7d. 15h. The reading of the wet-bulb thermometer is evidently erroneous. By reference to the photographic records, the readings of the dry and wet bulb are identical at this time.

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer. No. of Sparks, &c.	Clouds and Weather.
d h	°	'			
Sept. 7. 14	10	20	..	..	Cloudless; haze near the horizon.
15	30	40	..	..	Cloudless.
16	20	30	..	..	Cloudless; slight haze.
17	10	20	..	..	Cloudless; fog.
18	5	10	..	..	Cloudless; fog.
19	30	40	..	..	Hazy.
20	30	40	..	..	Hazy.
21	30	40	..	..	Hazy.
22	20	25	..	..	Hazy.
23	5	5	..	..	Hazy.
Sept. 8. 0	20	25	..	..	Light clouds in the N.; haze.
1	10	18	..	..	Cloudy.
2	7	10	..	..	Overcast.
3	12	15	..	..	Overcast.
4	5	5	..	..	Overcast.
5	18	30	..	..	Overcast.
6	13	15	..	..	Overcast.
7	5	5	..	..	The sky is nearly covered with dark clouds; thin fog.
8	5	5	..	..	Light clouds in the S.
9	20	30	..	..	Thin stratus and haze.
10	30	30	..	..	Thin clouds and haze around the horizon.
11	20	30	..	..	Stars visible in the zenith; hazy elsewhere.
Sept. 14. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Light clouds cover nearly half the sky.
14	5	5	..	..	Light clouds principally near the horizon.
15	5	5	..	..	Cirro-cumulus cover the sky.
16	5	5	..	..	Dark clouds cover the greater portion of the sky.
17	5	10	..	..	Clouds of different densities cover the sky.
18	5	5	..	..	Cirrus and cirro-cumulus partially cover the sky.
19	15	20	..	..	Cirrus and cirro-cumulus partially cover the sky.
20	12	20	..	..	Overcast.
21	35	40	..	..	Cirrus in every direction.
22	23	30	..	..	The sky is covered with clouds of different densities.
23	8	15	..	..	The sky is covered with clouds of different densities; high wind.
Sept. 15. 0	32	40	..	..	Light clouds, principally cirrus, in every direction.
1	6	10	..	..	Clouds of different densities cover the whole of the sky.
2	12	15	..	..	Dark clouds in every direction.
3	35	40	..	..	Clear sky here and there.
4	28	35	..	..	The sky is generally covered with dark clouds.
5	52	40	..	..	Clouds of different densities cover about half the sky.
6	65	40	..	..	Overcast.
7	80	40	..	..	Cirrus, stratus, and cirro-stratus in every direction.
8	Out of range	40	..	..	Partially cloudy.
9	Out of range	40	..	..	Thin clouds cover about half the sky.
10	30	40	..	..	A few clouds in the S.W.; otherwise cloudless.
11	30	40	..	..	Overcast.
Sept. 21. 12	..	..	..	..	Overcast; thin rain falling; strong wind.
13	..	..	..	..	Light clouds near the horizon; the rain ceased at $12^h.\ 20^m.$
14	..	..	..	..	Cirro-cumulus and light clouds in every direction.
15	..	..	..	..	Cirro-cumulus, stratus, and light clouds in every direction.
16	..	..	..	..	Cirro-cumulus and light clouds in every direction.
17	..	..	..	..	Cirro-cumulus in every direction.
18	..	..	..	..	Cirrus in the zenith; stratus in the S.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cloudless.
21	..	..	..	..	Cirrus and cirro-cumulus scattered over the sky.

September 21. The insulating lamp on the top of the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour in a Cubic Foot of Air.	Weight of Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity. Sat. = 100.	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0 – 10.	Ozone. 0 – 10.
	in.	°	°	°	in.	grs.	grs.		grs.				
Sept. 21. 22	29·362	53·1	52·8	48·8	·345	3·9	1·3	75	527	SW	0·0	7	0
23	29·344	53·4	53·4	53·8	·415	4·6	1·1	82	522	SW	0·0	4	1
Sept. 22. 0	29·312	62·5	54·8	48·9	·346	3·9	2·1	65	521	SW	0.0	10	3
1	29·289	57·5	55·2	53·2	·406	4·5	0·8	85	524	SW	0·0	10	4
2	29·254	57·8	54·8	52·2	·391	4·3	1·0	82	523	SSW	0·0	9	6
3	29·223	60·6	55·8	51·6	·382	4·3	1·7	72	519	SSW	1·0	8	9
4	29·186	55·6	54·6	52·9	·401	4·5	0·5	90	523	SSW	1·1	10	10
5	29·121	55·2	54·0	52·8	·400	4·5	0·4	92	523	SSW	0·5	10	10
6	29·095	56·5	52·6	51·1	·385	4·3	0·3	92	524	SW	2·2	10	10
7	29·115	52·5	50 5	48·5	·342	3·8	0·6	86	526	SW	0·8	4	10
8	29·127	51·0	49·8	47·5	·329	3·6	0·6	82	528	SW	2·0	1	10
9	29·136	50·6	48·4	46·1	·312	3·5	0·6	84	528	SW	1·4	0	10
10	29·132	50·0	47·6	45·8	·304	3·5	0·6	84	529	SW	0·4	0	0
11	29·152	49·5	47·0	44·8	·292	3·4	0·7	83	530	SW	0·4	0	0
Sept. 28. 12	28·898	49·5	48·6	47·7	·331	3·8	0·2	94	525	SSW	0·0	3	6
13	28·913	50·0	49·2	48·3	·338	3·9	0·2	94	525	SSW	0·0	10	8
14	28·913	49·8	49·0	48·1	·336	3·8	0·2	94	525	SSW	0·0	0	9
15	28·928	50·5	49·5	48·4	·342	3·8	0·3	93	525	SW	0·0	10	9
16	28·938	52·1	50·5	50·3	·365	4·1	0·1	98	525	SW	0·0	10	10
17	28·961	51·1	50·0	50·0	·361	4·1	0·0	100	526	SW	0·0	4	10
18	28·978	50·2	49·6	48·9	·346	4·0	0·2	96	526	SW	0·0	10	10
19	29·003	51·2	50·3	49·4	·353	4·0	0·3	94	525	SW	0·0	9	10
20	29·016	53·1	51·6	50·1	·362	4·1	0·4	89	524	SW	0·0	4	10
21	29·038	53·5	52·1	50·5	·367	4·1	0·5	89	523	SW	0·0	7	10
22	29·054	56·4	53·6	49·3	·352	3·9	1·6	72	517	WNW	0·0	8	0
23	29·069	56·6	52·1	47·9	·334	3·7	1·4	72	518	NW	0·0	10	0
Sept. 29. 0	29·080	59·3	55·1	51·4	·370	4·2	1·4	75	518	NW	0·0	3	0
1	29·095	58·0	53·5	49·5	·333	3·9	1·5	74	520	NW	0·0	8	0
2	29·113	59·6	54·6	50·8	·348	3·9	1·8	68	519	NW	0·0	8	0
3	29·134	56·6	52·6	48·8	·327	3·7	1·2	75	522	NW	0·0	10	0
4	29·150	56·5	53·2	49·8	·352	3·9	1·4	74	521	NW	0·0	9	0
5	29·162	53·6	52·0	50·4	·366	4·1	0·5	89	525	W	0·0	8	0
6	29·201	52·0	50·3	48·6	·343	3·9	0·5	88	528	WSW	0·0	5	0
7	29·230	52·5	49·7	48·0	·322	3·6	0·6	85	530	WSW	0·0	0	0
8	29·255	52·3	48·7	47·1	·324	3·6	0·5	88	531	WSW	0·0	4	0
9	29·287	49·8	48·4	46·9	·322	3·6	0·4	90	532	WSW	0·0	8	0
10	29·307	50·8	49·0	47·1	·324	3·6	0·5	87	531	WSW	0·0	10	0
11	29·323	50·6	48·9	47·2	·325	3·6	0·5	87	532	WSW	0·0	3	0
Oct. 5. 12	29·789	52·8	52·8	52·8	·400	4·4	0·0	100	538	Calm	0·0	10	7
13	29·791	52·5	52·4	52·3	·396	4·4	0·0	99	538	Calm	0·0	10	8
14	29·793	52·2	52·2	52·2	·391	4·4	0·0	100	538	Calm	0·0	10	8
15	29·798	52·2	52·2	52·2	·391	4·4	0·0	100	538	Calm	0·0	10	8
16	29·799	52·3	52·2	52·1	·389	4·4	0·0	99	538	Calm	0·0	10	8
17	29·810	52·4	52·3	52·2	·391	4·4	0·0	99	538	Calm	0·0	10	8
18	29·820	51·5	51·5	51·5	·381	4·3	0·0	100	540	Calm	0·0	10	8
19	29·827	51·4	51·3	51·2	·380	4·3	0·0	99	540	Calm	0·0	10	8
20	29·836	52·1	52·1	52·1	·389	4·4	0·0	100	539	Calm	0·0	10	8
21	29·841	52·8	52·4	52·3	·388	4·3	0·1	97	538	ENE	0·0	10	6
22	29·845	53·1	52·6	51·5	·381	4·3	0·3	92	538	ENE	0·0	10	0
23	29·854	53·4	53·0	52·6	·397	4·5	0·1	97	538	ENE	0·0	10	0
Oct. 6. 0	29·865	54·1	53·6	53·1	·404	4·6	0·3	94	537	ENE	0·0	10	0
1	29·842	54·2	54·0	53·1	·404	4·5	0·4	94	536	ENE	0·0	10	0
2	29·820	55·1	54·5	53·9	·416	4·6	0·3	95	536	ENE	0·0	10	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	General Weather.
d h	°	°			
Sept. 21. 22	..	..	..	..	Clouds of different densities cover a large portion of the sky.
23	..	..	..	..	Cumulus and cirro-cumulus near the horizon; a heavy shower of rain fell shortly before this observation.
Sept. 22. 0	..	..	..	..	Clouds of different densities cover the sky.
1	..	..	..	..	Overcast; heavy rain has just commenced to fall.
2	..	..	..	..	Dark clouds in every direction.
3	..	..	..	..	Cumulus, cirro-cumulus, and light clouds in every direction.
4	..	..	..	..	Overcast; heavy rain commenced shortly before this observation.
5	..	..	..	..	Overcast; rain still continues.
6	..	..	..	..	Overcast; rain ceased at $5^h.\ 40^m.$
7	..	..	..	..	A few clouds here and there; hard wind.
8	..	..	..	..	Nearly cloudless; hard wind.
9	..	..	..	..	Cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
Sept. 28. 12	5	10	..	..	Light clouds in the N.W., otherwise cloudless; hazy.
13	5	10	..	..	Overcast.
14	10	20	..	..	Cloudless; hazy.
15	5	10	..	..	Overcast; thin rain falling.
16	Out of range	40	..	..	Overcast; heavy rain fell between 15^h and 16^h.
17	0	0	..	..	Cirrus and cirro-stratus.
18	5	10	..	..	The sky is covered with clouds, broken here and there.
19	10	20	..	..	Overcast.
20	30	40	..	..	Partially cloudy; hazy; the Sun's place is visible.
21	50	40	..	..	Cumulus and dark clouds in every direction.
22	30	40	..	..	The sky is covered with clouds of different densities.
23	30	35	..	..	Overcast.
Sept. 29. 0	Out of range	40	..	..	Cirro-cumulus near the horizon; heavy rain fell at $23^h.\ 30^m.$
1	28	30	..	..	Dark clouds in every direction.
2	80	40	..	..	Clouds of different densities in every direction.
3	80	40	..	..	Clouds of different densities in every direction.
4	40	40	..	..	Generally cloudy.
5	18	25	..	..	Overcast; dark clouds in every direction; heavy rain fell at $4^h.\ 35^m$; and thunder was heard.
6	Out of range	40	..	..	Stratus and light clouds.
7	Out of range	40	..	..	Cloudless; fog and haze.
8	Out of range	40	..	..	Light clouds in the N. and N.W.; thin fog.
9	Out of range	40	..	..	Light clouds in nearly every direction; fog.
10	Out of range	40	..	..	Overcast; fog.
11	Out of range	40	..	..	Light clouds in the N.; haze and fog.
Oct. 5. 12	0	0	..	..	Overcast; fog.
13	0	0	..	..	Overcast; fog.
14	0	0	..	..	Overcast; fog.
15	0	0	..	..	Overcast; fog.
16	0	0	..	..	Overcast; fog.
17	0	0	..	..	Overcast; fog.
18	0	0	..	..	Overcast; fog.
19	0	0	..	..	Overcast; fog.
20	0	0	..	..	Overcast; fog.
21	0	0	..	..	Overcast; fog.
22	0	0	..	..	Overcast; fog.
23	0	0	..	..	Overcast; fog; rain fell at $22^h.\ 30^m$, but soon ceased.
Oct. 6. 0	0	0	..	..	Overcast; fog; rain fell at $23^h.\ 30^m.$
1	0	0	..	..	Overcast; thin rain falling.
2	0	0	..	..	Overcast; rain falls occasionally.

September 21 and 22. The insulating lamp on the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Oct. 6. 3	29·804	56·8	55·6	54·6	·427	4·7	0·4	92	533	E	0·0	10	0
4	29·813	56·9	55·8	54·9	·431	4·7	0·5	93	534	E	0·0	10	0
5	29·822	56·8	55·9	55·2	·436	4·8	0·3	93	534	E	0·0	10	0
6	29·824	56·8	55·8	55·0	·433	4·7	0·4	93	534	E	0·0	10	0
7	29·823	56·8	55·6	54·6	·427	4·7	0·4	92	534	E	0·3	10	0
8	29·835	56·6	55·9	55·4	·439	4·9	0·2	94	534	E	0·6	10	6
9	29·831	56·8	56·0	55·3	·437	4·8	0·3	94	534	E	1·6	10	9
10	29·813	56·6	55·5	54·6	·427	4·7	0·4	92	534	E	1·6	10	5
11	29·798	56·4	55·4	54·5	·425	4·7	0·3	93	534	E	2·2	10	9
Oct. 12. 12	30·053	50·2	50·2	50·2	·364	4·1	0·0	100	545	Calm	0·0	2	0
13	30·055	50·0	50·0	50·0	·361	4·1	0·0	100	545	Calm	0·0	10	0
14	30·066	49·7	49·7	49·7	·357	4·1	0·0	100	546	Calm	0·0	10	0
15	30·059	48·1	48·1	48·1	·336	3·8	0·0	100	548	Calm	0·0	10	0
16	30·065	49·0	49·0	49·0	·348	4·0	0·0	100	547	Calm	0·0	10	0
17	30·065	49·0	49·0	49·0	·348	4·0	0·0	100	547	Calm	0·0	10	0
18	30·065	49·6	49·6	49·6	·356	4·1	0·0	100	546	Calm	0·0	10	0
19	30·079	50·3	50·3	50·3	·365	4·1	0·0	100	546	Calm	0·0	10	0
20	30·085	51·5	51·5	51·5	·381	4·3	0·0	100	544	Calm	0·0	10	0
21	30·099	53·2	53·2	53·2	·406	4·5	0·0	100	543	Calm	0·0	10	0
22	30·099	54·9	54·6	54·3	·422	4·7	0·2	98	541	Calm	0·0	10	0
23	30·087	57·9	56·8	55·8	·446	4·8	0·6	93	537	Calm	0·0	10	0
Oct. 13. 0	30·069	59·8	57·9	56·3	·454	5·0	0·7	88	535	Calm	0·0	5	3
1	30·062	62·3	58·6	55·5	·441	4·9	1·4	79	532	Calm	0·0	10	4
2	30·056	61·0	58·3	56·0	·449	5·0	1·0	83	533	Calm	0·0	5	4
3	30·049	60·6	58·3	56·2	·453	5·1	0·8	86	534	Calm	0·0	3	4
4	30·043	59·8	57·7	55·9	·445	4·9	0·8	86	534	Calm	0·0	5	4
5	30·042	57·3	55·4	53·7	·413	4·6	0·7	87	537	Calm	0·0	7	5
6	30·035	56·6	56·1	55·7	·444	4·9	0·2	97	537	Calm	0·0	10	5
7	30·035	55·8	55·4	55·1	·434	5·0	0·0	97	538	Calm	0·0	9	10
8	30·033	54·5	54·4	54·3	·422	4·7	0·1	99	540	Calm	0·0	4	10
9	30·019	53·0	52·7	52·4	·394	4·4	0·1	98	542	Calm	0·0	0	8
10	29·999	52·5	52·5	52·5	·396	4·4	0·0	100	542	Calm	0·0	0	1
11	29·994	52·0	52·0	52·0	·388	4·4	0·0	100	542	Calm	0·0	0	3
Oct. 19. 12	30·121	52·3	51·7	51·1	·375	4·2	0·2	96	544	Calm	0·0	10	5
13	30·109	52·5	52·1	51·7	·384	4·3	0·1	97	544	Calm	0·0	10	5
14	30·099	51·7	51·4	51·1	·375	4·2	0·1	98	544	Calm	0·0	10	5
15	30·091	52·3	52·0	51·7	·384	4·3	0·1	98	543	Calm	0·0	10	5
16	30·082	52·5	51·9	51·3	·378	4·3	0·1	96	543	Calm	0·0	10	6
17	30·078	52·6	51·8	51·0	·374	4·2	0·3	95	543	Calm	0·0	10	7
18	30·083	53·0	51·9	50·8	·371	4·2	0·3	91	543	Calm	0·0	10	7
19	30·083	52·8	51·8	50·8	·371	4·1	0·3	94	543	Calm	0·0	10	8
20	30·085	53·2	52·4	51·6	·382	4·3	0·2	95	542	ENE	0·0	9	8
21	30·076	55·4	53·4	51·5	·381	4·3	0·7	87	540	ENE	0·0	10	9
22	30·073	57·9	55·1	52·6	·397	4·4	1·0	82	537	E	0·0	6	0
23	30·071	60·5	56·6	53·2	·406	4·6	1·4	75	534	ENE	0·0	4	0
Oct. 20. 0	30·063	59·9	55·0	50·7	·370	4·1	1·7	72	535	ENE	0·0	4	3
1	30·052	61·6	55·8	50·8	·371	4·1	2·0	69	533	ENE	0·0	4	0
2	30·045	60·3	55·2	50·5	·367	4·0	1·7	71	534	ENE	0·0	2	0
3	30·039	57·5	53·5	49·6	·360	4·0	1·3	75	537	ENE	0·0	2	0
4	30·036	54·9	52·3	50·2	·364	4·0	0·9	84	540	Calm	0·0	1	0
5	30·037	52·9	51·2	49·5	·355	4·0	0·5	89	542	Calm	0·0	8	3
6	30·042	52·5	51·0	49·5	·355	4·0	0·4	90	542	Calm	0·0	10	3
7	30·044	50·0	49·5	48·9	·346	3·9	0·2	96	545	Calm	0·0	0	4
8	30·052	47·5	47·5	47·5	·329	3·7	0·0	100	548	Calm	0·0	0	6
9	30·056	46·0	46·0	46·0	·311	3·6	0·0	100	550	Calm	0·0	0	7
10	30·057	45·6	45·6	45·6	·306	3·5	0·0	100	551	Calm	0·0	0	9

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
Oct. 6. 3	0	0	..	..	Overcast ; rain falls occasionally.
4	0	0	..	..	Overcast ; rain falls occasionally.
5	0	0	..	..	Overcast ; rain falls occasionally.
6	0	0	..	..	Overcast ; strong wind.
7	0	0	..	..	Overcast ; strong wind.
8	0	0	..	..	Overcast ; strong wind ; rain falling.
9	0	0	..	..	Overcast ; strong wind.
10	0	0	..	..	Overcast ; strong wind.
11	0	0	..	..	Overcast ; strong wind.
Oct. 12. 12	0	0	..	..	Light clouds near the Moon.
13	0	0	..	..	Overcast ; fog.
14	0	0	..	..	Overcast ; fog.
15	0	0	..	..	Overcast ; fog.
16	0	0	..	..	Overcast ; fog.
17	0	0	..	..	Overcast ; fog.
18	0	0	..	..	Overcast ; fog.
19	0	0	..	..	Overcast ; fog.
20	0	0	..	..	Overcast ; fog.
21	0	0	..	..	Overcast ; fog.
22	0	0	..	..	Overcast ; the fog has cleared off.
23	0	0	..	..	Partially cloudy.
Oct. 13. 0	0	0	..	..	Cumulus and cirro-cumulus.
1	0	0	..	..	Overcast.
2	0	0	..	..	Cumulus, cirro-cumulus, and light clouds near the horizon.
3	0	0	..	..	Light clouds near the horizon.
4	8	5	..	..	Light clouds near the horizon.
5	5	5	..	..	Partially cloudy.
6	5	5	..	..	Clouds of different densities cover the whole of the sky.
7	5	10	..	..	Generally cloudy.
8	5	10	..	..	Partially cloudy.
9	5	5	..	..	Cloudless.
10	5	10	..	..	Cloudless.
11	5	10	..	..	Cloudless.
Oct. 19. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Clouds of different densities cover the whole of the sky.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	0	0	..	..	Overcast.
21	0	0	..	..	Overcast.
22	0	0	..	..	Clouds of different density in nearly every direction.
23	0	0	..	..	Cumuli and light clouds here and there.
Oct. 20. 0	5	10	..	..	Cumuli and light clouds here and there.
1	36	40	..	..	Cumuli and light clouds here and there.
2	35	40	..	..	Light clouds in the N., otherwise cloudless.
3	28	33	..	..	Light clouds here and there.
4	15	20	..	..	A few cumuli in the N.
5	5	8	..	..	Partially cloudy.
6	5	5	..	..	Overcast.
7	5	5	..	..	Cloudless.
8	0	0	..	..	Cloudless.
9	0	0	..	..	Cloudless.
10	0	0	..	..	Cloudless.

1856. Month, Day, and Hour.	Readings of — Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0–10.	Ozone. 0–10.
	in.	°	°	°	in.	gr.	gr.		gr.		lbs		
Oct. 20. 11	30·040	45·3	45·3	45·3	·305	3·5	0·0	100	551	Calm	0·0	0	9
Oct. 26. 12	30·260	37·5	37·4	37·3	·223	2·7	0·1	99	566	Calm	0·0	0	3
13	30·256	39·6	39·1	38·4	·232	2·7	0·1	96	561	Calm	0·0	0	5
14	30·253	39·7	39·4	39·0	·238	2·8	0·1	97	561	Calm	0·0	0	5
15	30·242	37·1	37·1	37·1	·221	2·6	0·0	100	564	Calm	0·0	0	5
16	30·239	38·1	38·0	37·7	·228	2·7	0·1	99	563	Calm	0·0	3	5
17	30·244	40·1	39·7	39·2	·236	2·7	0·2	97	560	Calm	0·0	7	5
18	30·242	41·1	40·3	39·3	·240	2·8	0·2	93	559	Calm	0·0	8	6
19	30·251	40·6	39·8	38·8	·236	2·7	0·2	93	560	Calm	0·0	3	7
20	30·252	41·6	40·5	39·1	·238	2·7	0·3	92	559	Calm	0·0	2	8
21	30·263	46·8	44·8	42·5	·272	3·1	0·5	86	553	Calm	0·0	2	5
22	30·256	50·6	46·8	42·6	·276	3·1	1·0	76	549	ENE	0·0	0	0
23	30·256	52·4	47·8	43·1	·278	3·2	1·3	71	547	ENE	0·0	2	0
Oct. 27. 0	30·245	54·4	49·4	43·6	·284	3·2	1·8	65	544	ENE	0·0	5	1
1	30·231	54·9	49·4	44·1	·285	3·3	1·6	67	544	ENE	0·0	3	2
2	30·217	53·3	48·0	42·7	·274	3·1	1·5	68	545	ENE	0·0	1	3
3	30·213	52·0	47·5	42·6	·276	3·1	1·3	71	547	E	0·0	2	2
4	30·211	48·5	45·5	42·2	·269	3·1	0·8	79	552	ENE	0·0	0	6
5	30·214	46·0	44·3	42·3	·270	3·2	0·4	88	553	Calm	0·0	5	6
6	30·217	45·5	44·4	43·1	·278	3·2	0·3	92	554	Calm	0·0	4	6
7	30·219	43·0	43·0	43·0	·277	3·2	0·0	100	557	Calm	0·0	2	3
8	30·222	40·6	40·5	40·4	·251	3·0	0·1	99	560	Calm	0·0	0	0
9	30·226	39·4	39·4	39·4	·241	2·9	0·0	100	561	Calm	0·0	0	0
10	30·222	39·4	39·4	39·4	·241	2·9	0·0	100	561	Calm	0·0	0	0
11	30·220	37·1	37·1	37·1	·221	2·6	0·0	100	564	Calm	0·0	0	0
Nov. 2. 12	30·124	45·8	45·5	45·2	·302	3·4	0·1	98	552	Calm	0·0	10	4
13	30·114	45·3	45·0	44·7	·296	3·4	0·1	98	552	Calm	0·0	10	5
14	30·110	45·3	44·8	44·3	·292	3·3	0·2	96	552	Calm	0·0	10	6
15	30·101	45·0	44·8	44·5	·294	3·3	0·1	98	552	Calm	0·0	10	7
16	30·102	44·5	44·3	44·1	·289	3·4	0·1	98	553	Calm	0·0	0	8
17	30·102	43·8	43·8	43·8	·286	3·3	0·0	100	554	Calm	0·0	8	8
18	30·105	43·9	43·9	43·9	·287	3·4	0·0	100	554	Calm	0·0	10	8
19	30·103	44·1	44·1	44·1	·289	3·3	0·0	100	553	Calm	0·0	10	6
20	30·111	44·5	44·0	43·4	·281	3·3	0·1	96	553	Calm	0·0	10	3
21	30·112	45·3	43·9	42·3	·270	3·1	0·3	90	552	Calm	0·0	10	1
22	30·110	45·8	44·0	41·9	·266	3·0	0·5	86	552	Calm	0·0	10	0
23	30·107	47·0	45·0	42·8	·275	3·2	0·5	86	550	Calm	0·0	10	0
Nov. 3. 0	30·098	47·6	45·3	42·8	·275	3·2	0·6	84	549	Calm	0·0	10	3
1	30·078	49·5	46·5	43·3	·280	3·2	0·9	79	547	Calm	0·0	6	6
2	30·071	50·8	47·4	43·8	·286	3·3	0·9	77	545	Calm	0·0	8	6
3	30·072	50·0	46·8	43·5	·283	3·2	0·9	79	546	Calm	0·0	9	5
4	30·072	47·7	45·2	42·4	·271	3·2	0·6	83	549	Calm	0·0	10	6
5	30·074	45·2	43·6	41·8	·265	3·0	0·5	88	552	Calm	0·0	10	6
6	30·075	42·6	41·5	40·2	·249	2·8	0·3	91	555	Calm	0·0	10	5
7	30·074	42·1	41·2	40·1	·248	2·8	0·3	92	555	Calm	0·0	10	4
8	30·085	42·1	41·3	40·4	·251	2·9	0·2	93	555	Calm	0·0	10	0
9	30·080	39·7	39·6	39·5	·242	2·9	0·0	99	558	Calm	0·0	10	0
10	30·077	39·8	39·7	39·6	·243	2·9	0·0	100	558	Calm	0·0	10	0
11	30·074	40·7	40·0	39·2	·239	2·8	0·1	94	557	Calm	0·0	10	0
Nov. 9. 12	29·640	44·0	43·0	41·8	·265	3·0	0·3	92	545	W	0·0	10	0
13	29·617	43·3	42·1	40·6	·253	2·9	0·4	91	546	W	0·0	8	0
14	29·588	43·0	42·0	40·8	·255	2·9	0·3	92	545	W	0·0	10	0
15	29·537	42·0	40·7	39·0	·238	2·7	0·4	99	546	W	0·0	4	0
16	29·514	42·1	40·5	38·5	·233	2·7	0·4	88	545	WNW	0·0	2	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h					
Oct. 20. 11	0	0	..	..	Cloudless: slight fog.
Oct. 26. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Cloudless.
14	5	5	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	5	5	..	..	Light clouds here and there.
17	0	0	..	..	Clouds of different densities in many directions.
18	0	0	..	..	Cumuli and cirro-cumuli in many directions.
19	5	8	..	..	Dark clouds here and there.
20	8	12	..	..	Cirro-cumuli in the E.
21	20	20	..	..	Light clouds around the horizon.
22	15	20	..	..	Cloudless.
23	5	5	..	..	Light clouds here and there.
Oct. 27. 0	10	10	..	..	Light clouds here and there.
1	15	20	..	..	Light clouds here and there.
2	18	20	..	..	Light clouds here and there.
3	5	5	..	..	Light clouds here and there.
4	5	5	..	..	Cloudless.
5	5	5	..		Partially cloudy.
6	5	5	..	..	Light clouds near the horizon.
7	5	5	..	..	Light clouds in the zenith.
8	5	5	..	..	Cloudless.
9	5	5	..	..	Cloudless.
10	5	5	..	..	Cloudless.
11	5	5	..	..	Cloudless.
Nov. 2. 12	5	5	..	..	Overcast.
13	5	5	..	..	Overcast.
14	5	5	..	..	Overcast.
15	0	0	..	..	Overcast.
16	5	5	..	..	Cloudless.
17	5	5	..	..	Partially cloudy.
18	5	5	..	..	Overcast.
19	5	5	..	..	Overcast.
20	8	10	..	..	Overcast.
21	8	10	..	..	Overcast.
22	5	8	..	..	Overcast.
23	8	15	..	..	Overcast.
Nov. 3. 0	23	30	..	..	Overcast.
1	30	40	..	..	Cumuli and light clouds here and there.
2	80	40	..	..	Partially cloudy.
3	70	40	..	..	Partially cloudy.
4	35	40	..	..	Overcast.
5	50	40	..	..	Overcast.
6	5	10	..	..	Overcast.
7	5	5	..	..	Overcast.
8	20	10	..	..	Overcast.
9	..	..	..	..	Overcast.
10	..	..	..	..	Overcast.
11	..	..	..	..	Overcast.
Nov. 9. 12	..	..	..	..	Overcast.
13	..	..	..	..	Partially cloudy.
14	..	..	..	..	Overcast; rain commenced at 13h 45m, and still continues.
15	..	..	..	..	Partially cloudy; clear in the zenith.
16	..	..	..	..	Light clouds near the horizon.

November 3. 9h to 11h, and November 9. The insulating lamp on the top of the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of Barometer corrected to 32° Fahr.	Readings of Dry Thermometer.	Readings of Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0—10.	Ozone. 0—10.
	in.	°	°	°		gr.	gr.		gr.		lbs.		
Nov. 9. 17	29·482	41·6	40·0	38·0	·229	2·6	0·4	88	545	WNW	0·0	2	0
18	29·475	41·3	39·8	37·9	·228	2·7	0·4	88	544	WNW	0·0	10	0
19	29·460	40·8	39·7	38·3	·231	2·4	0·3	84	545	NW	0·0	10	0
20	29·447	38·4	38·4	38·4	·232	2·8	0·0	100	548	NNW	0·0	10	0
21	29·432	39·3	38·8	38·1	·230	2·7	0·2	96	547	N	0·0	9	0
22	29·420	40·7	39·1	37·1	·221	2·5	0·4	97	545	N	0·0	9	0
23	29·395	41·2	39·0	36·3	·214	2·5	0·5	83	544	N	0·0	6	0
Nov. 10. 0	29·378	40·1	37·0	33·0	·188	2·2	0·7	75	543	N	0·0	10	0
1	29·353	43·3	40·0	36·1	·213	2·5	0·8	76	541	N	0·0	6	0
2	29·330	41·5	37·6	32·9	·187	2·2	0·9	71	543	N	0·0	4	0
3	29·324	40·5	37·0	32·6	·185	2·2	0·8	73	544	N	0·0	10	0
4	29·317	38·9	36·2	32·6	·185	2·1	0·7	80	545	N	0·0	10	0
5	29·320	38·4	35·8	32·2	·182	2·2	0·6	79	546	N	0·0	10	0
6	29·313	37·6	35·7	33·1	·188	2·2	0·5	85	546	N	0·0	10	0
7	29·301	37·6	35·8	33·2	·189	2·2	0·5	85	546	N	0·0	10	0
8	29·294	36·9	35·1	32·5	·184	2·1	0·5	85	547	N	0·0	10	0
9	29·286	35·7	33·8	30·9	·173	2·0	0·4	82	548	N	0·0	8	0
10	29·278	33·9	32·4	29·8	·166	1·9	0·4	84	550	N	0·0	10	0
11	29·280	33·2	31·3	27·6	·151	1·8	0·4	79	551	N	0·0	7	0
Nov. 16. 12	30·140	28·9	28·9	28·9	·159	1·8	0·0	100	572	Calm	0·0	0	0
13	30·128	25·8	25·8	25·8	·140	1·6	0·0	100	576	Calm	0·0	0	0
14	30·113	25·9	25·9	25·9	·140	1·6	0·0	100	576	Calm	0·0	4	0
15	30·109	25·8	25·8	25·8	·140	1·4	0·0	100	575	Calm	0·0	0	0
16	30·099	25·3	25·3	25·3	·137	1·6	0·0	100	575	Calm	0·0	0	0
17	30·076	24·9	24·9	24·9	·134	1·4	0·0	100	576	Calm	0·0	0	0
18	30·068	24·3	24·3	24·3	·131	1·4	0·0	100	576	Calm	0·0	3	2
19	30·067	24·8	24·8	24·8	·134	1·6	0·0	100	576	Calm	0·0	9	0
20	30·070	27·9	27·9	27·9	·152	1·5	0·0	100	572	Calm	0·0	8	0
21	30·065	30·8	30·8	30·8	·172	1·8	0·0	100	568	Calm	0·0	10	0
22	30·066	31·7	31·7	31·7	·179	1·9	0·0	100	567	Calm	0·0	10	0
23	30·050	38·9	38·8	38·7	·235	2·3	0·1	99	559	Calm	0·0	8	0
Nov. 17. 0	30·036	38·6	38·6	38·6	·234	2·3	0·0	100	559	Calm	0·0	10	0
1	30·019	39·7	38·8	37·9	·228	2·4	0·1	99	557	Calm	0·0	10	0
2	30·006	40·7	39·4	37·5	·225	2·5	0·3	96	555	Calm	0·0	10	0
3	30·000	42·4	41·8	41·2	·259	2·6	0·3	98	553	Calm	0·0	10	0
4	29·996	41·4	40·2	39·0	·238	2·8	0·3	92	555	Calm	0·0	10	0
5	30·002	41·1	40·3	39·4	·241	2·7	0·4	93	555	Calm	0·0	10	0
6	29·996	40·6	40·0	39·3	·240	2·9	0·1	96	556	Calm	0·0	10	0
7	30·010	39·6	39·4	39·2	·239	2·8	0·1	97	557	Calm	0·0	0	0
8	30·014	37·4	37·4	37·4	·224	2·5	0·0	100	559	Calm	0·0	0	0
9	30·008	32·2	32·2	32·2	·182	2·1	0·0	100	563	Calm	0·0	0	0
10	30·015	35·6	35·6	35·1	·204	2·4	0·1	97	561	Calm	0·0	9	0
11	30·007	36·6	36·5	36·5	·216	2·4	0·1	98	560	Calm	0·0	10	0
Nov. 23. 12	29·828	51·5	48·4	45·3	·303	3·5	0·8	79	540	WNW	1·8	10	0
13	29·816	51·5	49·5	47·5	·329	3·7	0·6	86	540	NW	1·5	10	0
14	29·789	51·5	49·3	47·1	·324	3·6	0·7	85	539	WNW	1·8	0	0
15	29·769	51·1	48·9	46·7	·319	3·7	0·5	84	540	WNW	1·6	0	0
16	29·752	51·0	48·7	46·4	·316	3·6	0·6	84	539	WNW	1·9	6	0
17	29·753	50·5	48·0	45·4	·304	3·5	0·7	83	540	WNW	2·4	10	0
18	29·720	50·5	47·8	44·9	·298	3·5	0·7	82	539	WNW	0·8	10	0
19	29·706	51·0	48·2	45·3	·303	3·5	0·7	81	538	WNW	1·0	10	0
20	29·702	51·5	49·0	46·5	·317	3·6	0·7	83	538	WNW	1·3	10	0
21	29·701	52·5	50·0	47·5	·329	3·7	0·7	83	537	WNW	0·0	10	0
22	29·691	53·6	50·5	47·6	·330	3·7	1·0	79	535	WNW	0·0	10	0
23	29·678	54·4	50·8	47·3	·327	3·7	1·1	76	535	WNW	1·3	9	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Nov. 9. 17	..	..	..	..	Light clouds near the horizon.
18	..	..	..	..	Overcast.
19	..	..	..	..	Light clouds; haze and fog.
20	..	..	..	..	Overcast; thick fog; rain fell at 19h. 50m.
21	..	..	..	..	Overcast; heavy rain and hail fell about 20h.
22	..	..	..	..	Overcast.
23	..	..	..	..	Cumuli and cirro-cumuli in every direction.
Nov. 10. 0	..	..	..	..	Overcast.
1	..	..	..	..	Light clouds.
2	..	..	..	..	Partially cloudy.
3	..	..	..	..	Overcast.
4	..	..	..	..	Overcast.
5	..	..	..	..	Overcast.
6	..	..	..	..	Overcast; high wind.
7	..	..	..	..	Overcast; high wind.
8	..	..	..	..	Overcast; high wind.
9	..	..	..	..	Partially cloudy.
10	..	..	..	..	Overcast.
11	..	..	..	..	Partially cloudy.
Nov. 16. 12	10	5	..	..	Cloudless; fog.
13	80	40	..	..	Cloudless; fog.
14	50	30	..	..	Partially cloudy; fog.
15	Out of range	40	..	..	Cloudless; haze and fog.
16	80	40	..	..	Cloudless; haze and fog.
17	80	40	..	..	Cloudless; haze and fog.
18	80	40	..	..	Light clouds in the zenith; haze and fog.
19	Out of range	40	..	..	Generally cloudy; haze and fog.
20	Out of range	40	..	..	Partially cloudy; thin fog.
21	Out of range	40	..	..	Overcast; fog.
22	Out of range	40	..	..	Overcast; fog.
23	Out of range	40	..	..	Generally overcast; fog.
Nov. 17. 0	Out of range	40	..	..	Overcast; fog.
1	Out of range	40	..	..	Overcast; fog.
2	Out of range	40	..	..	Overcast; fog.
3	Out of range	40	..	..	Overcast; fog.
4	20	20	..	..	Overcast; thin rain falling.
5	50	40	..	..	Overcast; rain occasionally falls; thick fog.
6	30	30—	..	..	Overcast; heavy rain falling.
7	20	20	..	..	Cloudless; thick fog.
8	30	30	..	..	Cloudless; thin fog.
9	Out of range	40	3° to B	..	Cloudless; thick fog.
10	Out of range	40	5 to B	..	Cloudless; thick fog.
11	Out of range	40	3 to B	..	Overcast.
Nov. 23. 12	..	..	..	..	Overcast; strong breeze.
13	..	..	..	..	Overcast; strong breeze.
14	..	..	..	..	Cloudless; strong breeze.
15	..	..	..	..	Cloudless; strong breeze.
16	..	..	..	..	Partially cloudy; strong breeze.
17	..	..	..	..	Overcast; heavy squalls of wind.
18	..	..	..	..	Overcast; high wind.
19	..	..	..	..	Overcast; high wind.
20	..	..	..	..	Overcast; high wind.
21	..	..	..	..	Overcast; high wind.
22	..	..	..	..	Overcast; high wind.
23	..	..	..	..	Cloudy.

November 9. The insulating lamp on the Electrometer pole was not burning.

November 23 The electrical insulating lamp was not burning.

1856. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
	h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Nov. 24.	0	29·680	52·6	48·5	44·4	·293	3·4	1·1	73	537	NNW	2·2	5	0
	1	29·681	53·5	48·0	42·6	·273	3·1	1·3	67	536	NW	0·6	7	0
	2	29·681	52·5	48·0	43·5	·283	3·3	1·2	72	537	NW	2·8	7	0
	3	29·685	51·6	46·8	41·9	·266	3·0	1·3	69	538	NW	2·6	4	0
	4	29·683	49·2	44·3	39·0	·238	2·8	1·2	67	540	NW	1·5	1	0
	5	29·705	47·4	42·8	37·7	·226	2·7	1·1	70	543	NW	0·5	0	0
	6	29·711	46·8	42·5	37·6	·225	2·7	1·1	71	544	NW	2·0	0	0
	7	29·723	45·9	42·0	37·5	·225	2·7	1·0	73	545	NW	0·9	0	0
	8	29·733	44·5	41·0	37·0	·220	2·6	0·8	74	547	NW	0·4	0	0
	9	29·725	43·7	40·5	37·4	·224	2·6	0·7	80	548	WNW	0·0	7	0
	10	29·738	44·2	41·0	37·9	·228	2·6	0·7	78	547	WNW	0·0	10	0
	11	29·738	43·5	41·2	38·5	·233	2·7	0·6	82	548	NW	0·0	10	0
Nov. 30.	12	29·834	28·3	27·0	21·9	·117	1·4	0·4	76	567	NNW	0·0	0	0
	13	29·836	27·4	27·4	27·4	·149	1·7	0·0	100	568	NNW	0·0	0	0
	14	29·831	27·9	27·0	23·3	·125	1·4	0·3	82	567	NNW	0·0	0	0
	15	29·837	27·8	26·7	22·1	·118	1·5	0·3	78	568	Calm	0·0	0	0
	16	29·839	25·3	24·5	20·4	·110	1·3	0·3	81	571	Calm	0·0	0	0
	17	29·842	23·9	22·6	14·9	·085	1·0	0·5	67	573	Calm	0·0	0	0
	18	29·834	23·3	23·0	21·2	·114	1·4	0·1	92	573	Calm	0·0	0	0
	19	29·832	23·3	23·2	22·7	·121	1·4	0·1	98	573	Calm	0·0	0	0
	20	29·836	23·7	23·5	19·4	·105	1·4	0·2	96	572	Calm	0·0	2	0
	21	29·828	26·8	25·9	21·8	·117	1·5	0·3	82	569	Calm	0·0	4	0
	22	29·830	29·3	27·9	23·1	·124	1·4	0·5	77	565	Calm	0·0	0	0
	23	29·820	31·1	29·5	25·3	·137	1·5	0·6	77	563	NNW	0·0	10	0
Dec. 1.	0	29·813	32·4	30·6	26·8	·146	1·8	0·4	79	562	N	0·0	0	0
	1	29·821	33·4	30·8	25·9	·140	1·7	0·6	73	561	N	0·0	10	0
	2	29·783	32·9	31·8	29·6	·164	1·9	0·3	86	561	NNW	0·0	10	0
	3	29·784	32·7	31·3	28·6	·157	1·9	0·3	85	561	NNW	0·0	10	0
	4	29·790	32·8	30·7	26·4	·143	1·7	0·4	77	561	NW	0·0	10	0
	5	29·779	32·7	30·7	26·6	·145	1·7	0·4	78	561	WNW	0·0	10	0
	6	29·785	31·5	30·6	28·5	·156	1·8	0·3	99	563	W	0·0	10	0
	7	29·775	31·0	30·5	29·1	·160	1·9	0·2	92	562	WNW	0·0	0	0
	8	29·791	29·3	29·3	29·3	·162	1·9	0·0	00	565	WNW	0·0	0	0
	9	29·796	28·8	28·4	26·0	·141	1·6	0·2	188	565	NNW	0·0	0	0
	10	29·794	29·1	28·0	24·1	·130	1·6	0·3	81	565	NNW	0·0	0	0
	11	29·845	28·6	27·5	23·5	·126	1·5	0·2	87	567	NNW	0·0	0	0
Dec. 7.	12	29·432	56·0	50·7	45·7	·280	3·4	1·6	68	528	SSW	0·0	9	0
	13	29·406	56·0	51·2	46·7	·319	3·6	1·4	71	530	SSW	0·0	9	0
	14	29·383	56·3	51·2	47·2	·325	3·5	1·4	71	527	SSW	0·0	10	0
	15	29·381	55.7	50·8	46·1	·312	3·5	1·6	70	527	SSW	0·0	1	0
	16	29·382	55·7	51·0	46·4	·316	3·6	1·0	72	528	SSW	0·0	0	1
	17	29·390	57·2	51·3	45·9	·309	3·5	1·9	66	526	SSW	0·0	10	1
	18	29·394	57·0	51·5	46·4	·316	3·5	1·6	67	527	SSW	0·0	10	2
	19	29·416	56·6	51·5	46·8	·321	3·5	1·4	74	528	SSW	0·0	10	2
	20	29·440	55·7	51·8	46·6	·318	3·8	1·1	77	528	SSW	0·0	10	3
	21	29·456	56·8	52·0	47·4	·328	3·7	1·0	71	528	SSW	0·0	10	2
	22	29·464	55·9	52·2	48·6	·343	3·8	0·8	78	529	SSW	0·0	10	2
	23	29·460	56·8	53·0	49·4	·353	3·9	0·6	76	528	SSW	0·0	10	2
Dec. 8.	0	29·444	56·6	53·2	49·7	·357	4·0	0·8	76	528	SSW	0·0	10	2
	1	29·449	56·8	53·0	49·4	·353	3·9	0·6	76	528	SSW	0·0	10	2
	2	29·439	56·6	53·0	49·6	·356	4·0	0·7	78	527	SSW	0·0	10	2
	3	29·424	55·8	52·3	49·0	·348	3·8	0·9	75	529	SSW	0·0	6	2
	4	29·420	53·9	51·0	48·1	·336	3·8	0·4	81	531	S	0·0	5	3
	5	29·420	53·6	50·7	47·9	·334	3·7	0·9	80	530	S	0·0	8	3
	6	29·395	54·4	52.2	50·0	·361	4·1	0·7	85	529	S	0·0	10	2
	7	29·361	54·4	51·0	47·7	·331	3·8	1·0	78	528	S	0·0	10	2

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h					
Nov. 24. 0	..	..	..	..	Partially cloudy.
1	..	..	..	..	Partially cloudy.
2	..	..	..	..	Partially cloudy.
3	..	..	..	..	Partially cloudy.
4	..	..	..	..	Light clouds near the horizon.
5	..	..	..	..	Cloudless.
6	..	..	..	..	Cloudless.
7	..	..	..	..	Cloudless.
8	..	..	..	..	Cloudless.
9	..	..	..	..	Stratus in the S. and W.; thin clouds in other directions.
10	..	..	..	..	Overcast; rain falling.
11	..	..	..	..	Overcast; rain has occasionally fallen since 10^h.
Nov. 30. 12	80	40	..	..	Cloudless.
13	Out of range	40	..	..	Cloudless.
14	80	40	..	..	Cloudless.
15	80	40	..	..	Cloudless.
16	80	40	..	..	Cloudless.
17	Out of range	40	..	..	Cloudless.
18	Out of range	40	..	..	Cloudless.
19	Out of range	40	..	..	Cloudless.
20	Out of range	40	..	..	Light clouds in the S. and S.E.; slight haze.
21	Out of range	40	..	a volley at 0·015	Partially cloudy.
22	Out of range	40	..	a volley at 0·010	Cloudless.
23	Out of range	40	..	a volley at 0·015	Overcast.
Dec. 1. 0	Out of range	40	..	a volley at 0·015	Cloudless.
1	Out of range	40	..	a volley at 0·010	Overcast; cirro-cumuli.
2	Out of range	40	..	a volley at 0·015	Overcast.
3	Out of range	40	3° to B	a volley at 0·015	Overcast.
4	Out of range	40	2 to B	1 in 1^s at 0·015	Overcast.
5	Out of range	40	3 to B	1 in 1^s at 0·015	Overcast.
6	Out of range	40	2 to B	1 in 1^s at 0·010	Overcast.
7	Out of range	40	3 to B	3 in 1^s at 0·010	Cloudless.
8	Out of range	40	..	2 in 1^s at 0·010	Cloudless.
9	Out of range	40	5 to B	3 in 1^s at 0·010	Cloudless.
10	Out of range	40	..	2 in 1^s at 0·010	Cloudless.
11	Out of range	40	..	3 in 1^s at 0·010	Cloudless.
Dec. 7. 12	..	..	..	..	Generally cloudy.
13	..	..	..	..	Generally cloudy.
14	..	..	..	..	Overcast.
15	..	..	..	..	Dark clouds in the W.; otherwise cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Overcast.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..	..	Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Overcast.
Dec. 8. 0	..	..	..	..	Overcast.
1	..	..	..	..	Overcast.
2	..	..	..	..	Overcast.
3	..	..	..	..	Partially cloudy.
4	..	..	..	..	Partially cloudy.
5	..	..	..	..	Partially cloudy.
6	..	..	..	..	Overcast; rain commenced at $5^h.45^m$, and still continues.
7	..	..	..	..	Overcast.

November 24 and December 7 and 8. The insulating lamp on the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Pressure.	Clouds. 0–10.	Ozone. 0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Dec. 8. 8	29·349	55·1	51·3	47·7	·331	3·8	1·1	76	528	S	0·0	10	5
9	29·325	55·3	51·8	48·5	·342	3·9	1·0	78	527	SSW	0·0	10	5
10	29·322	54·9	52·2	49·6	·356	4·0	0·9	82	527	SSW	0·0	10	5
11	29·314	53·9	52·0	50·1	·362	4·1	0·6	87	528	SW	0·0	10	5
Dec. 14. 12	29·882	40.6	39·4	37·9	·228	2·6	0·3	90	554	N	0·0	1	0
13	29·905	39·7	38·7	37·4	·224	2·6	0·3	92	555	N	0·0	0	0
14	29·940	38·8	38·1	37·2	·222	2·6	0·2	95	557	N	0·0	0	0
15	29·982	37·6	37·0	36·2	·214	2·6	0·1	95	559	N	0·0	0	0
16	30·002	37·1	36·6	35·9	·211	2·4	0·2	95	560	N	0·0	0	0
17	30·033	36·6	36·0	35·2	·205	2·5	0·1	95	561	N	0·0	0	0
18	30·055	35·7	35·3	34·8	·202	2·4	0·1	96	562	N	0·0	0	0
19	30·089	35·3	34·7	33·8	·194	2·2	0·2	94	563	N	0·0	0	0
20	30·114	34·7	34·0	32·9	·187	2·2	0·2	93	565	N	0·0	0	0
21	30·148	35·2	33·9	31·8	·179	2·1	0·3	87	565	N	0·0	7	0
22	30·183	38·3	35·7	32·1	·182	2·1	0·6	78	562	N	0·0	10	0
23	30·197	38·5	35·8	32·1	·182	2·1	0·6	78	562	NNE	0·0	6	0
Dec. 15. 0	30·197	39·7	37·0	33·5	·192	2·2	0·6	78	561	NNE	0·0	0	0
1	30·210	39·2	36·5	32·9	·187	2·2	0·6	79	561	NNE	0·0	1	0
2	30·232	39·1	36·8	33·7	·193	2·3	0·5	82	562	NNE	0·0	3	0
3	30·245	38·9	36·8	34·0	·196	2·3	0·5	84	562	NNE	0·0	6	0
4	30·271	36·7	35·6	34·1	·196	2·2	0·3	91	565	NNE	0·0	3	0
5	30·293	35·4	34·3	32·5	·184	2·2	0·3	90	567	NNE	0·0	0	0
6	30·309	34·9	34·3	33·4	·191	2·2	0·2	94	568	NNE	0·0	0	0
7	30·335	35·6	34·7	33·4	·191	2·2	0·3	92	568	NNE	0·0	5	0
8	30·346	33·8	33·5	33·1	·188	2·1	0·1	96	571	NNE	0·0	7	0
9	30·358	33·5	33·2	32·7	·186	2·1	0·1	97	571	NE	0·0	5	0
10	30·375	32·6	32·5	32·4	·184	2·1	0·1	99	572	NE	0·0	0	0
11	30·385	33·0	32·8	32·4	·184	2·2	0·1	97	572	NNE	0·0	2	0
Dec. 21. 12	30·160	42·6	40·8	38·7	·235	2·7	0·4	87	556	W	0·0	10	0
13	30·143	42·6	40·8	38·7	·235	2·7	0·4	87	556	W	0·0	10	0
14	30·113	42·8	41·3	39·5	·242	2·8	0·4	88	555	W	0·0	10	0
15	30·109	43·0	41·5	39·7	·244	2·8	0·4	87	555	W	0·0	10	0
16	30·075	43·0	42·8	42·6	·273	3·1	0·1	98	554	W	0·0	10	0
17	30·032	43·0	41·4	39·5	·242	2·8	0·4	86	554	W	0·0	10	0
18	30·012	43·0	41·4	39·5	·242	2·8	0·4	86	553	W	0·0	10	0
19	29·998	43·0	41·5	39·7	·244	2·8	0·4	87	553	W	0·0	10	0
20	29·989	43·0	41·5	39·7	·244	2·8	0·4	87	552	W	0·0	10	0
21	29·978	44·7	42·0	38·8	·236	2·7	0·6	80	551	W	0·0	10	0
22	29·974	43·8	42·2	40·2	·249	2·8	0·4	88	552	W	0·0	10	0
23	29·961	44·4	42·2	39·6	·243	2·8	0·5	83	551	W	0·0	10	0
Dec. 22. 0	29·926	44·7	42·7	40·3	·250	2·8	0·5	84	550	W	0·0	10	0
1	29·904	45·2	43·2	40·9	·256	2·9	0·6	85	549	W	0·0	10	0
2	29·882	45·2	45·0	44·8	·297	3·4	0·1	99	548	W	0·0	10	0
3	29·865	45·1	43·0	40·6	·255	2·9	0·5	84	548	W	0·0	10	0
4	29·845	44·5	42·7	40·5	·252	2·9	0·5	86	549	WNW	0·0	10	0
5	29·837	44·0	42·2	40·0	·247	2·8	0·5	86	549	WNW	0·0	10	0
6	29·833	43·7	42·0	40·0	·247	2·8	0·4	86	549	W	0·0	10	0
7	29·829	43·5	42·0	40·2	·249	2·8	0·4	88	549	W	0·0	10	0
8	29·826	43·7	42·2	40·4	·251	2·8	0·4	86	549	W	0·0	10	0
9	29·821	43·7	42·3	40·7	·254	2·9	0·4	87	549	W	0·0	10	0
10	29·803	43·0	41·8	40·4	·251	2·9	0·3	89	549	W	0·0	10	0
11	29·799	43·1	41·8	40·3	·250	2·9	0·3	88	549	W	0·0	10	0
Dec. 28. 12	29·699	27·7	27·3	25·8	·140	1·6	0·1	92	565	WSW	0·0	0	0
13	29·721	27·7	27·4	26·2	·142	1·6	0·1	94	565	WSW	0·0	0	0
14	29·747	27·5	27·3	26·4	·143	1·7	0·1	99	566	WSW	0·0	0	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
	°	°			
Dec. 8. 8	..	..	..	..	Overcast ; hard wind ; a few drops of rain fall occasionally.
9	..	..	..	..	Overcast ; heavy squalls of wind and rain.
10	..	..	..	..	Overcast ; heavy squalls of wind and rain.
11	..	..	..	..	Overcast ; heavy squalls of wind and rain.
Dec. 14. 12	25	35	..	..	Light clouds near the horizon.
13	20	30	..	..	Cloudless.
14	20	25	..	..	Cloudless.
15	25	35	..	..	Cloudless.
16	20	35	..	..	Cloudless.
17	20	30	..	..	Cloudless.
18	20	30	..	..	Cloudless ; lunar halo.
19	40	40	..	..	Cloudless ; lunar halo.
20	60	40	..	..	Cloudless ; fog and haze.
21	Out of range	40	1° to B	..	Partially cloudy.
22	60	40	..	..	Overcast.
23	80	40	..	..	Partially cloudy.
Dec. 15. 0	Out of range	40	1 to B	..	Cloudless.
1	Out of range	40	1 to B	..	Partially cloudy.
2	Out of range	40	1 to B	..	Partially cloudy.
3	80	40	..	..	Partially cloudy.
4	Out of range	40	1 to B	..	Partially cloudy.
5	Out of range	40	1 to B	..	Cloudless.
6	Out of range	40	1 to B	..	Cloudless.
7	Out of range	40	3 to B	2 in 1^s at 0·010	Partially cloudy.
8	Out of range	40	5 to B	2 in 1^s at 0·015	Partially cloudy.
9	Out of range	40	5 to B	4 in 1^s at 0·015	Partially cloudy ; haze.
10	Out of range	40	5 to B	..	Cloudless ; moon surrounded by mist.
11	Out of range	40	5 to B	..	Light clouds near the Moon.
Dec. 21. 12	60	40	..	..	Overcast.
13	10	10	..	..	Overcast.
14	10	10	..	..	Overcast.
15	5	10	..	..	Overcast ; strong wind.
16	5	10	..	..	Overcast ; strong wind.
17	10	20	..	..	Overcast ; strong wind.
18	30	40	..	..	Overcast ; strong wind.
19	40	40	..	..	Overcast ; very dark ; strong wind.
20	60	40	..	..	Overcast ; slight haze.
21	Out of range	40	..	..	Overcast.
22	70	40	..	..	Overcast.
23	60	40	..	..	Overcast.
Dec. 22. 0	60	40	..	..	Overcast.
1	80	40	..	..	Overcast.
2	Out of range	40	..	..	Overcast.
3	Out of range	40	3 to B	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	2 to B	..	Overcast ; thin fog.
6	80	40	..	..	Overcast ; fog and haze.
7	Out of range	40	2 to B	..	Overcast ; very dark.
8	Out of range	40	3 to B	..	Overcast ; thin fog.
9	60	40	2 to B	..	Overcast ; a very dark night.
10	Out of range	40	2 to B	..	Overcast.
11	Out of range	40	2 to B	..	Overcast.
Dec. 28. 12	Out of range	40	2 to B	1 in 1^s at 0·040	Cloudless.
13	Out of range	40	2 to B	1 in 1^s at 0·025	Cloudless.
14	30	30	..	..	Cloudless.

December 8. The insulating lamp on the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of: Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Hygrometrical Deductions: Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind: Direction.	Wind: Pressure.	Clouds. 0–10.	Ozone. 0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Dec. 28. 15	29·771	27·8	27·5	26·5	·144	1·6	0·1	94	567	WSW	0·0	0	0
16	29·787	28·4	27·9	26·1	·142	1·6	0·2	91	566	WSW	0·0	0	0
17	29·801	27·1	26·9	26·2	·142	1·7	0·1	96	568	WSW	0·0	0	0
18	29·839	27·0	26·8	25·9	·140	1·7	0·1	95	569	WSW	0·0	0	0
19	29·867	26·6	26·4	25·6	·139	1·7	0·1	98	570	WSW	0·0	0	0
20	29·892	28·8	28·5	27·6	·151	1·8	0·2	96	568	WSW	0·0	0	0
21	29·912	29·0	28·5	26·7	·145	1·8	0·1	91	568	WSW	0·0	4	0
22	29·931	30·8	29·5	26·0	·141	1·6	0·4	82	566	W	0·0	7	0
23	29·955	33·9	31·6	27·6	·151	1·8	0·5	77	563	W	0·0	9	0
Dec. 29. 0	29·956	34·8	32·4	28·5	·156	1·8	0·5	77	562	W	0·0	10	0
1	29·861	35·6	33·4	30·0	·167	1·9	0·5	80	559	W	0·0	10	0
2	29·974	36·2	34·1	31·0	·174	2·0	0·5	81	560	W	0·0	10	0
3	29·975	36·2	34·0	30·8	·172	2·0	0·5	81	560	W	0·0	10	0
4	29·974	36·6	34·3	31·0	·174	2·0	0·5	80	560	W	0·0	8	0
5	29·977	36·6	34·5	31·5	·177	2·0	0·5	82	560	W	0·0	10	0
6	29·980	36·7	35·0	32·7	·186	2·1	0·4	85	560	W	0·0	10	0
7	29·984	37·1	35·5	33·3	190	2·2	0·4	86	560	WNW	0·0	10	0
8	29·987	37·6	36·0	33·9	·195	2·2	0·4	86	559	WNW	0·0	10	0
9	29·994	38·4	36·8	34·7	·201	2·4	0·4	87	559	WNW	0·0	10	0
10	30·021	38·1	36·8	35·1	·204	2·4	0·3	88	559	WNW	0·0	10	0
11	30·023	38·1	36·8	35·1	·204	2·4	0·3	88	559	WNW	0·0	10	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
Dec. 28. 15	40	40	..	..	Cloudless.
16	40	40	..	..	Cloudless.
17	70	40	..	..	Cloudless.
18	Out of range	40	2° to B	1 in 1ˢ at 0·025	Cloudless.
19	Out of range	40	3 to B	1 in 1ˢ at 0·020	Cloudless.
20	Out of range	40	2 to B	1 in 1ˢ at 0·015	Cloudless.
21	Out of range	40	3 to B	..	Light clouds here and there.
22	Out of range	40	3 to B	..	Partially cloudy.
23	Out of range	40	3 to B	..	Overcast.
Dec. 29. 0	Out of range	40	2 to B	..	Overcast.
1	Out of range	40	2 to B	..	Overcast.
2	Out of range	40	2 to B	..	Overcast.
3	Out of range	40	2 to B	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast; scud.
6	Out of range	40	..	..	Overcast; sleet falling.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	Out of range	40	..	2 in 1ˢ at 0·025	Overcast.
10	Out of range	40	..	2 in 1ˢ at 0·025	Overcast.
11	Out of range	40	..	..	Overcast.

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1856.		Reading.	Approximate Mean Solar Time, 1856.		Reading.	Approximate Mean Solar Time, 1856.		Reading.	Approximate Mean Solar Time, 1856.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	12. 22. 30	30·550	January	7. 9. 0	28·854	July	29. 21. 0	30·142	July	23. 21. 0	29·500
	22. 9. 0	29·329		20. 9. 0	28·937	August	4. 21. 0	30·113	August	2. 9. 0	29·914
	31. 9. 0	30·083		24. 0. 0	28·830		12. 21. 0	29·855		8. 9. 0	29·502
February	5. 3. 0	30·056	February	4. 3. 0	29·851		19. 9. 0	29·491		17. 21. 0	29·299
	8. 9. 0	29·934		6. 9. 0	29·480		23. 3. 0	30·037		20. 21. 0	29·192
	16. 22. 15	29·752		13. 9. 0	29·537		26. 3. 0	29·839		25. 9. 0	29·699
March	1. 0. 0	30·527		18. 9. 0	29·603		29. 21. 0	30·049		28. 9. 0	29·606
	7. 9. 0	30·249	March	6. 3. 0	30·030	September	2. 21. 0	30·166	September	1. 9. 0	29·607
	15. 0. 0	30·041		12. 0. 0	29·846		14. 21. 0	30·103		6. 9. 0	29·572
	23. 8. 0	30·082		18. 21. 0	29·668		20. 9. 0	29·984		17. 9. 0	29·715
	29. 22. 30	30·144		26. 9. 0	29·768		25. 21. 0	29·485		24. 9. 0	28·953
April	7. 9. 0	29·383	April	6. 2. 45	29·142	October	2. 21. 0	29·724		27. 22. 50	28·688
	11. 0. 0	29·556		9. 21. 0	29·049		9. 21. 0	30·116	October	3. 21. 0	29·558
	19. 22. 30	30·172		11. 21. 0	29·358		12. 21. 0	30·103		11. 3. 0	29·864
	30. 9. 0	29·529		26. 9. 0	29·331		16. 21. 0	30·233		15. 3. 0	29·255
May	3. 9. 0	29·972	May	0. 21. 0	29·350		24. 9. 0	30·371		20. 3. 0	30·038
	8. 21. 0	30·039		6. 21. 0	29·271	November	1. 9. 0	30·266		30. 21. 0	29·992
	16. 21. 0	29·539		15. 9. 0	29·297		6. 21. 0	30·476	November	3. 3. 0	30·074
	19. 21. 0	29·936		18. 1. 0	29·331		16. 9. 0	30·140		11. 0. 0	29·220
	25. 21. 0	29·762		23. 9. 0	29·357		21. 9. 0	30·146		20. 0. 0	29·895
	29. 21. 0	30·002		27. 21. 0	29·468		25. 9. 0	29·943		24. 0. 0	29·680
June	7. 0. 0	30·146		31. 9. 0	29·583	December	2. 0. 0	29·852		26. 0. 0	29·444
	15. 21. 0	30·009	June	13. 9. 0	29·445		3. 21. 0	29·960	December	3. 0. 0	29·652
	28. 22. 20	30·153		19. 9. 0	29·382		7. 21. 0	29·464		6. 3. 0	29·348
July	2. 21. 0	30·115		30. 3. 0	29·894		11. 0. 0	29·394		10. 3. 0	29·181
	10. 3. 0	29·807	July	7. 21. 0	29·187		16. 0. 0	30·457		13. 0. 0	28·733
	14. 9. 0	29·878		12. 9. 0	29·659		20. 0. 0	30·428		18. 0. 0	29·742
	16. 21. 0	29·988		15. 21. 0	29·643		30. 21. 0	30·126		25. 21. 0	28·749

In the formation of this table several secondary waves have been included in addition to the primary waves mentioned in the foot notes to the *Results of Ordinary Meteorological Observations.*

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the YEAR 1856.

1856. Month.	Mean Reading of the Barometer.	Temperature of the Air.							Mean Temperature of Dew Point.
		Highest.	Lowest.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.	
	in.	°	°	°	°	°	°	°	°
January	29·468	54·0	24·3	29·7	45·8	35·2	8·6	39·5	36·4
February	29·889	58·0	27·3	30·5	47·4	37·6	9·8	42·0	38·1
March	30·011	58·0	24·7	33·3	45·7	33·3	12·4	38·9	33·1
April	29·614	73·0	30·6	42·4	57·4	38·2	19·2	46·8	38·7
May	29·647	72·0	29·8	42·2	59·1	42·6	16·5	49·5	43·0
June	29·877	83·1	41·1	42·0	76·8	50·0	20·8	58·8	51·3
July	29·831	87·5	44·0	43·5	73·3	52·4	20·9	61·1	54·2
August	29·746	89·8	45·0	44·8	75·9	54·7	21·2	63·6	55·8
September	29·653	72·5	40·0	32·5	65·5	47·6	17·9	55·2	47·5
October	29·991	66·2	31·4	34·8	59·9	45·8	14·1	51·7	49·0
November	29·902	58·0	19·4	38·6	47·1	35·1	12·0	40·7	36·8
December	29·645	58·9	18·5	40·4	45·1	35·3	9·8	40·2	37·2
Means	29·774	69·3	31·4	37·9	57·6	42·3	15·3	49·0	43·4

1856. Month.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required to saturate a Cubic Foot of Air.	Mean Degree of Humidity. (Sat. = 100.)	Mean Weight of a Cubic Foot of Air.	Wind.			Mean Amount of Cloud. 0–10	Rain.	
						Prevailing Direction.	Mean Daily Pressure in lbs. on Square Foot.	Mean Daily Horizontal Movement of Wind in Miles.		Number of Rainy Days.	Amount collected on the Ground.
	in.	gr.	gr.		gr.						in.
January	·215	2·5	0·4	90	547	S	0·12	97	7·6	18	2·4
February	·230	2·6	0·5	86	552	S ; W	0·22	131	8·4	10	0·9
March	·188	2·2	0·6	81	558	E ; N	0·14	99	8·0	6	1·2
April	·235	2·7	1·0	74	542	S ; E	0·36	133	6·8	13	2·3
May	·277	3·1	0·9	79	539	N ; S	0·43	148	8·1	18	3·5
June	·378	4·3	0·9	76	536	W ; S	0·12	77	7·2	7	1·6
July	·421	4·7	1·3	78	529	W ; S	0·27	90	7·1	13	0·9
August	·446	4·9	1·4	77	525	S ; W	0·22	69	6·2	10	2·4
September	·329	3·8	1·1	76	533	W	0·15	94	6·7	17	2·8
October	·348	3·9	0·4	91	543	E	0·07	49	7·3	12	1·6
November	·218	2·5	0·4	86	554	N ; W	0·15	94	7·5	10	1·0
December	·222	2·6	0·3	90	550	W ; S	0·14	140	7·4	13	1·3
Means	·292	3·3	0·8	82	542	..	..	..	7·4	Sum 144	Sum 21·3

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays, Good Friday, and Christmas Day.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·20	50·30	49·50	48·83	48·22	S	48·18	48·92	49·41	50·80	51·45	51·64
2	51·12	50·25	S	48·81	48·23	48·03	48·23	48·94	49·48	50·85	S	51·64
3	51·13	S	49·45	48·76	48·20	48·04	48·26	S	49·35	50·86	51·47	51·64
4	51·08	50·23	49·41	48·81	S	48·04	48·30	48·98	50·00	50·90	51·48	51·65
5	51·10	50·20	49·40	48·69	48·18	48·03	48·28	49·12	50·05	S	51·50	51·68
6	S	50·29	49·38	S	48·17	48·03	S	49·10	50·08	50·85	51·53	51·75
7	51·05	50·17	49·35	48·66	48·16	48·05	48·29	49·08	S	50·70	51·51	S
8	51·02	50·14	49·31	48·63	48·14	S	48·28	49·08	50·13	50·98	51·55	51·70
9	50·98	50·11	S	48·63	48·15	48·04	48·33	49·13	50·18	50·98	S	51·71
10	50·96	S	49·24	48·61	48·13	48·06	48·22	S	50·18	51·04	51·54	51·70
11	50·92	50·05	49·20	48·61	S	48·03	48·36	49·25	50·35	51·07	51·55	51·69
12	50·90	50·05	49·20	48·56	48·13	48·03	48·38	49·26	50·24	S	51·57	51·67
13	S	50·00	49·15	S	48·12	48·06	S	49·30	50·27	51·15	51·53	51·66
14	50·85	49·97	49·15	48·53	48·13	48·04	48·45	49·32	S	51·13	51·57	S
15	50·85	49·94	49·10	48·81	48·08	S	48·45	49·36	50·33	51·18	51·58	51·65
16	50·80	49·90	S	48·47	48·03	48·07	48·43	49·32	50·33	51·18	S	51·60
17	50·77	S	49·10	48·47	48·07	48·05	48·48	S	50·40	51·23	51·60	51·61
18	50·75	49·81	49·10	48·38	S	48·07	48·54	49·38	50·33	51·22	51·63	51·62
19	50·72	49·79	49·10	48·43	48·10	48·07	48·60	49·42	50·38	S	51·64	51·61
20	S	49·75	49·10	S	48·07	48·08	S	49·48	50·46	51·34	51·70	51·58
21	50·68	49·71	Good Friday	48·42	48·09	48·08	48·58	49·48	S	51·33	51·65	S
22	50·60	49·70	49·00	48·37	48·07	S	48·64	49·53	50·56	51·35	51·65	51·55
23	50·64	49·68	S	48·46	48·06	48·14	48·65	49·54	50·57	51·32	S	51·53
24	50·58	S	48·90	48·36	48·05	48·14	48·64	S	50·60	51·35	51·66	51·53
25	50·55	49·64	48·92	48·35	S	48·15	48·68	49·63	50·64	51·35	51·65	Christ. Day.
26	50·52	49·64	48·87	48·31	48·07	48·18	48·71	49·65	50·68	S	51·70	51·46
27	S	49·60	48·87	S	48·04	48·16	S	49·68	50·70	51·42	51·67	51·45
28	50·44	49·55	48·87	48·27	48·00	48·18	48·77	49·73	S	51·38	51·65	S
29	50·34	49·55	48·85	48·26	48·00	S	48·82	49·75	50·73	51·38	51·64	51·40
30	50·35		S	48·24	48·02	48·18	48·85	49·85	50·80	51·40	S	51·42
31	50·34		48·80		48·01		48·88	S		51·42		51·42
Means	50·75	49·93	49·13	48·53	48·10	48·08	48·53	49·32	50·32	51·15	51·58	51·60

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	48·25	46·75	46·15	45·60	46·25	S	50·28	53·01	55·25	55·33	54·42	52·10
2	48·20	46·75	S	45·58	46·36	47·81	50·37	53·08	55·17	55·30	S	52·05
3	48·20	S	46·10	45·63	46·41	47·79	50·47	S	55·26	55·27	54·16	51·90
4	48·06	46·75	46·10	45·60	S	47·88	50·62	53·13	55·32	55·23	54·28	51·85
5	48·10	46·70	46·10	45·53	46·51	47·94	50·62	53·31	55·32	S	54·25	51·85
6	S	46·70	46·10	S	46·53	47·89	S	53·35	55·31	55·12	54·18	51·79
7	48·00	46·70	46·10	45·50	46·56	48·11	50·82	53·43	S	55·15	54·13	S
8	47·95	46·60	46·10	45·51	46·55	S	50·82	53·44	55·38	55·10	54·05	51·54
9	47·88	46·57	S	45·63	46·69	48·26	51·13	53·51	55·43	55·01	S	51·50
10	47·80	S	45·85	45·63	46·71	48·33	51·13	S	55·20	55·02	53·92	51·33
11	47·75	46·45	45·85	45·65	S	48·36	51·26	53·85	55·39	54·98	53·88	51·25
12	47·70	46·40	45·90	45·61	46·84	48·40	51·38	53·90	55·33	S	53·82	51·08

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*concluded*.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
13	*S*	46·40	45·85	*S*	46·81	48·57	*S*	54·04	55·35	54·90	53·73	51·00
14	47·75	46·42	45·90	45·61	46·81	48·64	51·56	54·08	*S*	54·88	53·66	*S*
15	47·60	46·30	45·85	45·63	46·81	*S*	51·66	54·20	55·41	54·87	53·60	50·76
16	47·70	46·25	*S*	45·61	46·83	48·86	51·73	54·23	55·40	54·85	*S*	50·58
17	47·55	*S*	45·80	45·71	46·82	48·85	51·83	*S*	55·40	54·90	53·60	50·60
18	47·55	46·20	45·80	45·71	*S*	49·06	51·86	54·33	55·36	54·81	53·38	50·54
19	47·50	46·19	45·80	45·76	47·05	49·13	52·10	54·42	55·37	*S*	53·31	50·48
20	*S*	46·19	45·80	*S*	46·98	49·27	*S*	54·56	55·27	54·60	53·25	50·40
21	47·40	46·15	Good Friday	45·86	47·05	49·33	52·18	54·60	*S*	54·85	53·13	*S*
22	47·18	46·20	45·80	45·81	47·08	*S*	52·24	54·69	55·45	54·80	53·06	50·30
23	47·20	46·20	*S*	45·91	47·11	49·55	52·33	54·73	55·42	54·70	*S*	50·23
24	47·15	*S*	45·60	45·98	47·16	49·68	52·34	*S*	55·41	54·70	52·91	50·20
25	47·05	46·21	45·87	46·07	*S*	49·77	52·42	54·90	55·41	54·65	52·70	Christ. Day
26	47·00	46·20	45·66	46·07	47·28	49·82	52·50	54·91	55·45	*S*	52·60	50·04
27	*S*	46·15	45·66	*S*	47·31	50·01	*S*	55·08	54·90	54·65	52·53	49·95
28	46·88	46·15	45·70	46·14	47·30	50·07	52·63	55·14	*S*	54·53	52·40	*S*
29	46·85	46·15	45·65	46·18	47·35	*S*	52·69	55·10	55·33	54·48	52·30	49·81
30	46·80		*S*	46·25	47·44	50·23	52·81	55·20	55·40	54·52	*S*	49·84
31	46·75		45·64		47·51		52·91	*S*		54·50		49·75
Means.	47·69	46·39	45·87	45·76	46·89	48·87	51·64	54·12	55·33	54·89	53·49	50·87

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	44·10	44·40	44·40	44·58	47·98	*S*	55·55	58·00	58·90	56·98	54·50	49·32
2	44·19	44·20	*S*	44·47	47·98	51·17	55·71	58·06	59·08	56·80	*S*	49·12
3	44·40	*S*	44·54	44·42	48·01	51·22	56·02	*S*	59·10	56·72	54·05	48·80
4	44·38	44·00	44·60	44·49	*S*	51·28	56·30	58·05	59·20	56·65	54·03	48·28
5	44·50	43·75	44·70	44·51	47·88	51·33	56·37	58·40	59·10	*S*	53·95	48·12
6	*S*	43·60	44·70	*S*	47·80	51·49	*S*	58·30	59·10	56·47	53·85	47·90
7	44·65	43·50	44·70	44·86	47·81	51·79	56·73	59·00	*S*	56·41	53·71	*S*
8	44·70	43·42	44·70	45·12	47·77	*S*	56·64	59·02	59·20	56·40	53·52	47·47
9	44·80	43·40	*S*	45·49	47·75	52·22	56·99	59·08	59·20	56·45	*S*	47·50
10	44·80	*S*	44·50	45·46	47·73	52·48	57·13	*S*	58·82	56·47	53·04	47·58
11	44·50	43·70	44·45	45·60	*S*	52·68	57·12	58·40	58·82	56·36	52·81	47·73
12	44·88	43·90	44·40	45·70	47·66	52·80	57·06	58·35	58·76	*S*	52·62	47·87
13	*S*	44·00	44·50	*S*	47·77	53·18	*S*	58·50	58·70	56·42	52·38	47·92
14	44·75	44·25	44·40	45·89	47·77	53·42	57·02	58·50	*S*	56·33	52·13	*S*
15	44·50	44·40	44·30	46·07	48·08	*S*	57·08	58·50	58·76	56·30	51·87	48·11
16	44·60	44·60	*S*	46·23	48·26	53·85	57·05	59·10	58·82	56·26	*S*	48·12
17	44·20	*S*	44·20	46·51	48·41	53·87	57·13	*S*	58·70	56·31	51·40	48·12
18	44·05	44·80	44·10	46·61	*S*	54·02	57·18	59·41	58·56	56·22	51·17	48·10
19	43·90	44·86	44·00	46·73	48·70	54·06	57·40	59·47	58·50	*S*	50·90	47·93
20	*S*	44·90	44·00	*S*	48·83	54·22	*S*	59·60	58·50	56·12	50·68	47·84
21	43·80	44·82	Good Friday.	46·90	48·95	54·28	57·24	59·20	*S*	56·03	50·40	*S*
22	43·79	44·78	44·10	46·96	48·99	*S*	57·42	59·24	58·60	55·92	50·30	47·50
23	43·90	44·67	*S*	47·08	49·14	54·41	57·53	59·18	58·50	55·80	*S*	47·41
24	44·10	*S*	44·10	47·19	49·38	54·48	57·59	*S*	58·40	55·70	50·16	47·42
25	44·20	44·31	44·43	47·31	*S*	54·61	57·54	59·22	58·50	55·62	49·98	Christ. Day
26	44·30	44·30	44·31	47·40	49·81	54·69	57·68	59·18	57·90	*S*	50·00	47·30

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6 French feet—*concluded.*

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°		°	°	°		°			°	
27	*S*	44·27	44·59	*S*	49·99	54·79	*S*	59·20	57·80	55·53	49·98	47·14
28	44·60	44·25	44·60	47·69	50·12	54·88	57·54	59·11	*S*	55·30	49·88	*S*
29	44·55	44·30	44·60	47·85	50·30	*S*	57·62	59·05	57·18	55·07	49·61	46·83
30	44·60		*S*	47·95	50·58	55·37	57·90	58·80	57·10	55·02	*S*	46·71
31	44·50		44·57		50·72		57·80	*S*		54·80		46·40
Means.	44·38	44·22	44·42	46·12	48·60	53·29	57·05	58·84	58·61	56·09	51·88	47·79

At temperatures above 57°·5, the fluid of this thermometer enters the upper bulb: the estimated readings from July 23 to September 27 are therefore liable to some uncertainty.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d									°			
1	41·30	40·10	42·80	42·14	48·01	*S*	60·77	63·43	61·90	55·99	51·83	44·08
2	41·18	39·60	*S*	42·50	47·69	52·89	61·00	64·08	61·75	55·95	*S*	43·40
3	41·40	*S*	42·90	42·36	47·21	53·11	61·22	*S*	61·60	55·91	52·17	45·76
4	41·40	39·10	42·85	43·90	*S*	53·82	61·40	64·90	61·20	56·10	52·07	42·10
5	41·88	38·90	42·80	44·40	47·00	54·63	61·31	65·30	60·90	*S*	51·75	41·90
6	*S*	39·10	42·60	*S*	46·91	55·31	*S*	65·20	60·55	56·58	51·31	42·00
7	42·40	39·70	42·50	44·74	46·92	55·55	61·33	65·90	*S*	56·65	50·60	*S*
8	42·50	40·60	42·30	44·97	46·88	*S*	61·13	65·60	60·50	56·60	50·30	44·13
9	42·50	41·50	*S*	45·20	46·77	56·12	60·64	65·40	60·40	56·50	*S*	45·03
10	42·10	*S*	41·85	45·29	46·68	56·81	60·00	*S*	60·26	56·38	49·51	45·70
11	42·60	42·60	41·90	45·63	*S*	57·25	59·72	65·40	60·38	56·33	49·05	46·30
12	41·05	43·00	42·00	45·89	47·99	57·60	59·95	65·20	60·65	*S*	48·50	46·50
13	*S*	43·30	41·60	*S*	48·83	57·82	*S*	65·10	60·72	56·42	48·03	46·50
14	40·10	43·70	41·40	46·80	48·83	57·77	59·16	65·20	*S*	56·38	47·70	*S*
15	39·70	43·80	41·25	47·12	49·51	*S*	60·31	65·30	60·32	56·28	47·37	46·12
16	39·50	43·95	*S*	47·09	49·44	57·39	60·47	64·90	59·96	56·02	*S*	45·45
17	39·10	*S*	41·00	47·03	49·62	57·20	60·72	*S*	59·78	55·92	46·40	44·80
18	39·40	43·00	41·10	47·03	*S*	57·52	60·41	64·40	59·50	55·70	45·90	44·12
19	40·10	43·10	41·60	47·13	49·75	57·51	60·57	64·01	59·37	*S*	45·78	44·00
20	*S*	42·55	42·00	*S*	48·88	57·54	*S*	63·50	58·80	55·30	45·88	43·95
21	41·30	42·10	Good Friday.	47·43	49·22	57·39	60·68	63·02	*S*	55·35	46·06	*S*
22	41·85	41·55	42·80	47·51	50·66	*S*	60·93	62·61	57·70	55·30	46·30	44·10
23	42·10	41·20	*S*	47·81	51·48	57·25	61·25	62·15	57·55	55·07	*S*	44·21
24	42·30	*S*	42·80	47·60	51·66	57·36	61·42	*S*	57·20	55·00	47·10	44·30
25	42·70	41·31	42·87	48·18	*S*	57·51	61·94	61·51	57·00	54·97	47·37	Christ. Day.
26	42·80	41·40	42·79	48·63	52·28	58·02	62·10	61·47	56·80	*S*	47·10	43·40
27	*S*	41·70	42·78	*S*	52·55	58·75	*S*	61·57	56·53	54·22	46·47	45·75
28	42·45	42·21	42·50	49·21	52·98	59·58	61·91	61·60	*S*	53·40	45·98	*S*
29	41·90	42·60	42·30	48·80	53·45	*S*	62·05	61·79	56·12	52·73	45·47	41·66
30	41·30		*S*	48·38	53·68	59·68	62·22	61·90	56·10	52·20	*S*	41·20
31	40·65		42·18		53·42		62·72	*S*		51·84		40·92
Means.	41·39	41·66	42·22	46·26	49·57	56·85	61·01	63·90	59·32	55·37	48·24	44·13

At temperatures exceeding 64°·5, the fluid of this thermometer enters the upper bulb; the estimated readings from August 4 to August 16 are therefore liable to some uncertainty.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the case which covers the tops of the deep-sunk Thermometers, at the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	42·0	36·0	44·5	49·0	47·0	S	64·1	74·8	63·0	56·0	51·5	34·0
2	43·0	35·5	S	53·0	46·8	58·3	64·3	75·8	60·8	56·4	S	32·5
3	44·0	S	40·3	51·3	45·8	61·3	64·7	S	60·3	58·4	49·2	37·0
4	43·8	37·0	41·7	50·1	S	64·1	65·5	70·8	61·0	60·1	42·2	34·0
5	44·0	41·0	41·0	49·0	46·8	61·8	64·8	72·0	60·5	S	47·8	42·0
6	S	45·0	43·0	S	48·1	59·9	S	69·0	61·9	56·6	43·8	48·2
7	44·0	49·0	41·5	48·0	45·8	61·9	63·3	70·4	S	50·0	45·0	S
8	42·0	49·0	39·0	49·3	46·8	S	55·9	67·5	60·6	57·0	45·0	52·7
9	40·0	48·0	S	48·0	47·1	63·7	58·2	67·4	61·0	54·8	S	52·0
10	39·0	S	41·5	50·5	51·3	66·0	61·4	S	64·4	56·2	44·5	51·9
11	36·0	47·6	41·5	51·5	S	65·0	63·7	72·0	64·0	56·5	41·8	49·0
12	36·0	49·0	40·0	53·1	53·0	64·8	64·9	70·5	63·3	S	42·8	48·8
13	S	48·0	39·0	S	54·3	62·0	S	71·3	60·7	56·5	42·3	46·0
14	37·0	48·0	40·0	52·0	54·3	60·0	64·2	67·5	S	56·1	42·8	S
15	34·0	47·0	38·0	50·3	52·4	S	64·7	68·0	60·6	55·5	39·2	41·7
16	38·0	45·0	S	48·9	51·9	61·2	66·1	67·8	60·4	54·4	S	36·8
17	42·0	S	42·0	47·4	53·7	61·8	62·4	S	59·4	55·5	37·9	37·0
18	47·0	39·0	44·0	49·1	S	62·9	61·8	62·0	58·0	55·0	42·2	44·0
19	45·0	39·5	46·0	49·1	52·0	58·2	66·0	62·0	55·0	S	43·8	41·8
20	S	38·1	45·0	S	51·1	59·8	S	63·0	53·8	50·7	47·1	42·8
21	47·0	38·0	Good Friday.	51·7	58·3	58·6	63·9	61·4	S	56·0	46·0	S
22	42·0	37·0	44·0	51·8	56·4	S	67·9	63·3	56·5	54·9	48·1	44·4
23	46·0	40·0	S	51·0	58·0	60·2	69·2	58·1	57·0	55·8	S	42·0
24	48·0	S	41·0	51·8	56·4	61·9	68·0	S	56·1	56·1	50·5	40·5
25	46·0	42·0	41·9	56·8	S	65·2	66·1	62·8	55·3	53·8	43·1	Christ. Day
26	45·0	46·0	41·8	55·0	59·9	68·1	66·4	61·8	55·0	S	49·2	36·0
27	S	47·0	42·2	S	60·1	71·3	S	65·0	55·0	49·3	45·3	35·8
28	40·5	46·0	40·5	48·6	59·0	69·2	65·0	63·3	S	45·0	39·9	S
29	36·0	46·0	41·0	47·0	59·0	S	67·5	64·0	55·1	44·8	35·5	34·0
30	36·0		S	47·1	54·7	67·4	68·0	63·5	56·5	49·0	S	40·0
31	36·0		43·3		51·3		72·9	S		53·0		43·7
Means.	41·5	43·3	41·7	50·4	52·6	63·0	64·8	66·7	59·0	54·5	43·9	41·9

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with the scales of the deep-sunk Thermometers, at the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	43·0	35·5	43·0	63·5	47·0	S	67·5	85·4	69·0	61·8	51·2	32·1
2	45·5	33·0	S	64·0	48·0	67·9	69·1	86·7	63·3	62·3	S	29·0
3	46·0	S	45·0	55·1	46·8	72·1	69·5	S	66·5	61·6	47·7	36·3
4	44·5	40·0	40·6	53·4	S	73·6	72·5	79·2	68·0	62·5	45·6	31·8
5	45·0	45·6	41·0	54·0	50·1	64·9	68·8	81·5	65·5	S	47·8	50·1
6	S	48·0	43·0	S	51·4	64·1	S	73·0	48·8	55·4	47·1	53·5
7	45·5	53·0	41·5	54·0	44·8	70·1	61·8	78·8	S	58·0	46·0	S
8	41·0	52·0	40·0	51·8	47·0	S	49·2	69·3	67·0	56·7	44·0	56·9
9	35·0	54·0	S	50·0	48·1	68·1	61·5	67·6	69·8	53·8	S	55·5
10	38·0	S	43·0	53·2	60·0	71·4	67·8	S	71·3	58·3	41·6	53·8
11	32·0	48·0	42·0	56·0	S	73·5	67·5	81·0	68·5	57·4	41·2	50·0
12	35·5	50·0	43·0	57·9	55·7	66·0	67·8	75·0	68·8	S	41·6	51·9
13	S	49·5	41·0	S	55·7	63·8	S	79·5	61·8	60·1	41·8	48·0
14	36·0	52·0	40·0	56·0	55·7	60·3	66·3	72·0	S	56·7	41·0	S
15	35·0	50·0	38·0	53·8	56·3	S	67·8	72·5	66·0	55·5	40·1	40·0

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers—*concluded.*

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°							°	°
16	37 ·0	50 ·0	*S*	52 ·2	53 ·9	68 ·7	67 ·3	76 ·2	63 ·8	55 ·5	*S*	32 ·2
17	45 ·0	*S*	42 ·0	51 ·9	56 ·5	64 ·0	67 ·8	*S*	62 ·6	59 ·4	37 ·7	37 ·0
18	50 ·0	35 ·0	46 ·0	55 ·0	*S*	66 ·9	61 ·3	59 ·8	58 ·0	57 ·5	43 ·5	46 ·5
19	47 ·0	37 ·0	50 ·0	49 ·5	57 ·0	56 ·4	75 ·5	61 ·8	56 ·3	*S*	44 ·6	40 ·9
20	*S*	37 ·0	46 ·0	*S*	63 ·0	61 ·4	*S*	64 ·0	54 ·3	62 ·0	49 ·8	45 ·0
21	49 ·5	35 ·0	Good Friday.	61 ·3	68 ·7	62 ·9	66 ·2	62 ·8	*S*	62 ·0	46 ·2	*S*
22	39 ·0	37 ·5	48 ·0	56 ·0	56 ·4	*S*	73 ·9	67 ·1	60 ·5	60 ·6	51 ·3	44 ·5
23	50 ·0	44 ·0	*S*	58 ·6	63 ·1	61 ·8	75 ·5	58 ·4	62 ·0	58 ·2	*S*	38 ·6
24	49 ·0	*S*	41 ·0	56 ·7	57 ·1	68 ·2	68 ·3	*S*	58 ·7	58 ·8	53 ·6	40 ·3
25	47 ·0	46 ·0	41 ·6	68 ·8	*S*	73 ·3	71 ·4	64 ·2	61 ·2	54 ·0	38 ·8	Christ. Day.
26	49 ·0	50 ·5	41 ·2	58 ·8	66 ·9	76 ·4	74 ·0	64 ·9	61 ·0	*S*	37 ·9	32 ·3
27	*S*	49 ·0	48 ·9	*S*	67 ·1	82 ·5	*S*	72 ·0	54 ·0	55 ·0	44 ·0	31 ·0
28	41 ·5	46 ·0	43 ·5	52 ·0	65 ·2	75 ·6	69 ·4	68 ·1	*S*	45 ·3	38 ·0	*S*
29	34 ·0	51 ·0	43 ·0	47 ·9	61 ·5	*S*	74 ·5	67 ·0	57 ·1	44 ·2	31 ·0	31 ·8
30	34 ·0		*S*	47 ·1	55 ·3	76 ·0	75 ·4	71 ·0	62 ·0	55 ·0	*S*	44 ·0
31	35 ·5		55 ·7		48 ·8		82 ·8	*S*		56 ·3		47 ·4
Means.	41 ·8	45 ·1	43 ·1	55 ·3	55 ·5	68 ·3	69 ·0	71 ·4	63 ·3	57 ·2	43 ·7	42 ·3

WEEKLY MEANS of READINGS of THERMOMETERS.

1856. Period.				Thermometers sunk in the ground. Bulb, 24 French Feet deep.	Bulb, 12 French Feet deep.	Bulb, 6 French Feet deep.	Bulb, 3 French Feet deep.	Bulb, 1 Inch deep.	Thermometer inclosed in the box which covers the scales of the deep-sunk Thermometers, and placed on a level with their scales.
	d		d	°	°	°	°	°	°
January	1	to	7	51·12	48·13	44·37	41·59	43·5	46·6
	8	to	14	50·94	47·81	44·74	41·81	38·3	36·3
	15	to	21	50·76	47·55	44·17	39·83	42·2	43·9
	22	to	28	50·56	47·08	44·15	42·37	44·6	45·9
	29	to February	4	50·31	46·78	44·37	40·44	36·1	34·6
February	5	to	11	50·16	46·62	43·56	40.40	46·6	50·1
	12	to	18	49·95	46·33	44·34	43·46	46·0	47·8
	19	to	25	49·71	46·16	44·72	41·97	39·1	39·4
	26	to March	4	49·53	46·14	44·42	42·35	44·5	46·4
March	5	to	11	49·31	46·02	44·62	42·33	41·3	41·8
	12	to	18	49·13	45·85	44·32	41·39	40·5	41·7
	19	to	25	49·00	45·77	44·12	42·41	43·6	45·3
	26	to April	1	48·85	45·65	44·54	42·45	43·0	51·0
April	2	to	8	48·73	45·56	44·64	43·81	50·1	55·4
	9	to	15	48·63	45·63	45·70	45·99	51·0	54·5
	16	to	22	48·42	45·74	46·66	47·20	49·7	54·3
	23	to	29	48·34	46·06	47·42	48·37	51·7	57·1
	30	to May	6	48·21	46·39	47·93	47·53	46·9	48·4
May	7	to	13	48·14	46·69	47·75	47·35	49·7	51·9
	14	to	20	48·08	46·88	48·34	49·34	52·6	57·4
	21	to	27	48·06	47·17	49·38	51·31	58·2	63·2
	28	to June	3	48·02	47·53	50·69	53·26	57·3	61·8
June	4	to	10	48·04	48·09	51·76	55·37	62·9	68·7
	11	to	17	48·05	48·61	53·30	57·51	62·5	66·0
	18	to	24	48·10	49·34	54·24	57·43	60·3	62·9
	25	to July	1	48·17	50·09	54·68	59·05	67·6	74·9
July	2	to	8	48·27	50·62	56·29	61·23	63·1	65·2
	9	to	15	48·37	51·35	57·07	59·96	62·9	66·4
	16	to	22	48·55	51·99	57·24	60·63	64·7	68·7
	23	to	29	48·72	52·40	57·38	61·78	67·0	72·8
	30	to August	5	48·93	53·05	58·04	63·78	72·4	81·8
August	6	to	12	49·15	53·58	58·69	63·45	69·5	74·1
	13	to	19	49·35	54·22	58·91	64·82	66·4	70·3
	20	to	26	49·55	54·73	59·27	62·38	61·7	63·6
	27	to September	2	49·73	55·16	59·02	61·75	63·3	68·2
September	3	to	9	50·07	55·34	59·15	60·86	60·9	67·6
	10	to	16	50·28	55·35	58·78	60·38	62·3	66·1
	17	to	23	50·45	55·38	58·56	58·78	56·6	58·9
	24	to	30	50·69	55·15	57·81	56·63	55·5	59·0
October	1	to	7	50·83	55·32	56·67	56·20	55·9	60·3
	8	to	14	51·06	55·00	56·41	56·44	56·2	57·2
	15	to	21	51·25	54·81	56·21	55·76	54·6	58·7
	22	to	28	51·36	54·67	55·65	54·66	52·5	55·3
	29	to November	4	51·43	54·39	54·58	52·14	48·3	50·0
November	5	to	11	51·53	54·07	53·48	50·42	44·7	44·6
	12	to	18	51·58	53·63	51·93	47·32	41·2	40·9
	19	to	25	51·66	53·06	50·40	46·42	46·4	47·4
	26	to December	2	51·66	52·33	49·65	45·42	37·9	35·3
December	3	to	9	51·69	51·74	48·01	43·49	44·3	47·4
	10	to	16	51·66	50·00	47·89	46·10	45·7	45·9
	17	to	23	51·68	50·43	47·82	44·20	42·0	42·1
	24	to	31	51·45	49·63	46·97	42·87	38·3	37·8

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1855.	Dec.	31.	12.	The direction of the wind was S.
1856.	Jan.	31.	12.	,, ,, S.W., which implies a direct motion of 45°.
	Jan.	2.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	22.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of January was 405°.

		d	h	
1856.	Jan.	31.	12.	The direction of the wind was S.W.
	Feb.	29.	12.	,, ,, N.E., which implies a direct motion of 180°.
	Feb.	4.	3.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of February was 180°.

		d	h	
1856.	Feb.	29.	12.	The direction of the wind was N.E.
	March	31.	12.	,, ,, S.E., which implies a direct motion of 90°.
	March	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of March was 810°.

		d	h	
1856.	March	31.	12.	The direction of the wind was S.E.
	April	30.	12.	,, ,, S.E., which implies a retrograde motion of 360°.
	April	3.	2.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	15.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	26.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	26.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of April was 720°.

		d	h	
1856.	April	30.	12.	The direction of the wind was S.E.
	May	31.	12.	,, ,, N.W., which implies a direct motion of 180°.
	April	30.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of May was 180°.

		d	h	
1856.	May	31.	12.	The direction of the wind was N.W.
	June	30.	12.	,, ,, N.E., which implies a direct motion of 90°.
	June	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	23.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of June was 2250°.

CHANGES IN THE DIRECTION OF THE WIND—*concluded.*

		d	h	
1856.	June	30.	12.	The direction of the wind was N.E.
	July	31	12.	,, ,, S.E., which implies a direct motion of 90°.
	July	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	4.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	22.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of July was 1170°.

		d	h	
1856.	July	31.	12.	The direction of the wind was S.E.
	August	31.	12.	,, ,, W., which implies a retrograde motion of 225°.
	August	6.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	August	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	20.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	21.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of August was 495°.

		d	h	
1856.	August	31.	12.	The direction of the wind was W.
	Sept.	30.	12.	,, ,, W.S.W., which implies a retrograde motion of $22\frac{1}{2}$°.
	Sept.	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of September was $697\frac{1}{2}$°.

		d	h	
1856.	Sept.	30.	12.	The direction of the wind was W.S.W.
	Oct.	31.	12.	,, ,, W.N.W., which implies a direct motion of $67\frac{1}{2}$°.
	Oct.	30.	3.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of October was $427\frac{1}{2}$°.

		d	h	
1856.	Oct.	31.	12.	The direction of the wind was W.N.W.
	Nov.	30.	12.	,, ,, N.N.W., which implies a direct motion of 45°.

Therefore the whole excess of direct motion in the month of November was 45°.

		d	h	
1856.	Nov.	30.	12.	The direction of the wind was N.N.W.
	Dec.	31.	12.	,, ,, W.S.W., which implies a retrograde motion of 90°.
	Dec.	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Dec.	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of December was 90°.

The whole excess of direct motion to the end of the year was 5850°. = 16R · 210

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1856.

1856, MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January	1·2	2·0	2·1	2·4
February	0·6	0·8	0·9	0·9
March	0·8	1·2	1·0	1·2
April	1·2	1·7	1·9	2·3
May	2·3	3·3	3·4	3·5
June	1·2	1·6	1·5	1·6
July	0·8	1·1	1·2	0·9
August	1·8	2·2	2·2	2·4
September	2·0	2·5	2·6	2·8
October	1·3	1·6	1·6	1·6
November	0·7	1·1	1·2	1·0
December	1·1	1·1	1·6	1·3
Sums	15·0	20·2	21·2	21·9

The heights of the receiving surfaces are as follows:—

	Above the Level of the Sea.			Above the Ground.	
	Ft.	In.		Ft.	In.
Osler's Anemometer Gauge	205	6	.....	50	8
Gauge on the Roof of the Library.....	177	2	.....	22	4
Crosley's Gauge	156	6	.....	1	8
Cylinder Gauge	155	3	.....	0	5

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LIBRARY

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1857.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1857.)

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1857.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1857.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1857, of Mr. James Glaisher, the Superintendant, and Mr. Thomas Downs; with three supernumerary assistants, to aid in the observations and reductions.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, page i to xlii; and to corresponding parts of the preceding volumes.

During the year 1857, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two or three observations only have been taken; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on February 10, 12, 14, 18, 20, 26, March 8, 15, April 17, 23, May 8, 26, July 13, August 9, September 27, October 30, November 15, 17, December 20, 27.

Observations were made of the Collimation of the DECLINATION MAGNETOMETER; of the Torsion-force of its Suspension skein; and of the Collimation of the Theodolite-Telescope; on 1856, December 28, 29, 30, 31, 1857, January 1, 2, 3, 4, and 5.

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1856, December 28, 29, 30, 31, 1857, January 1 and 2. The angle determined was 43°. 8′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on the same days, and the general conclusion was, that the scale-readings were nearly identical and had nearly the same value when the reading of the torsion-circle was 144°. 0′ (marked end West); and 230°. 30′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) was 144°. 0′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020524.

The correction for temperature is $0{\cdot}0000809 \times (t-32) + 0{\cdot}000000762\ (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observation.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made three or four times a week. The adopted time of vibration till April 17, was $16^s{\cdot}31$; from April 18 to September 3, $17^s{\cdot}25$; and from September 4 to the end of the year, $16^s{\cdot}00$. Observations for the time of vibration in a horizontal plane were made in 1853, on January 3 and 4, and the time was found to be $25^s{\cdot}0033$ from 10000 vibrations.

The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·001476 till April 17; 0·001319 from April 18 to September 3; and 0·001533 from September 4 to the end of the year: and these numbers have been used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 + (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus; in the determination of zeros, both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in preceding volumes has still occasionally been felt. Apparently without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot notes, will very nearly produce the original curves.

At the times when the Vertical Force Trace is dislocated, two ordinates have been taken for the same abscissæ; these are connected by a brace, and the difference of the numbers indicates the amount of the disturbance.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Jan. 4	
0. 0	21. 42. 15
0. 8	42. 10
0. 53:	43. 30
2. 23	42. 25
2. 35	42. 50
3. 26	40. 40
3. 38	41. 25
3. 54	40. 20
4. 12	41. 40
4. 40	40. 40
5. 15	39. 30
5. 53	21. 38. 40
10. 33	38. 25
12. 5	38. 10
12. 18	39. 30
12. 31	39. 0
12. 48	40. 0
13. 13	38. 30
14. 13	39. 35
14. 30	38. 20
	***
15. 8	37. 10
15. 27	37. 30
15. 45	37. 0
16. 25	38. 40
17. 4	36. 0
	***
19. 2	38. 30
	***
20. 6	38. 0
21. 37	38. 30
23. 30	42. 0
Jan. 5	
	(†)
3. 0	21. 37. 20
4. 47	37. 5
5. 40	37. 35
5. 58	37. 10
6. 9	37. 40
6. 15	37. 15
6. 39	38. 0
7. 1	37. 0
7. 17	34. 40
7. 45	37. 0
7. 56	35. 5
8. 12	36. 50
8. 28	35. 25
9. 18	36. 50
9. 30	32. 40
10. 13	35. 0
10. 26	33. 0
11. 2	35. 0
11. 43	35. 20
12. 0	36. 30
12. 8	35. 20
12. 22	36. 40
12. 30	36. 0
12. 42	36. 40
12. 54	35. 30
14. 15	37. 0
14. 28	37. 30
14. 59	37. 10
16. 0	36. 50
17. 17	37. 30
17. 22	37. 0
17. 58	37. 5
18. 24	36. 55
21. 20	36. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Jan. 3	
2. 3	·1066
2. 28	·1067
2. 50	·1062
3. 9	·1066
3. 30	·1063
4. 12	·1069
5. 31	·1068
9. 6	·1074
9. 55	·1069
10. 46	·1075
11. 2	·1072
11. 31	·1072
11. 53	·1076
12. 27	·1071
12. 54	·1076
13. 11	·1071
15. 53	·1075
18. 15	·1084
19. 39	·1080
20. 9	·1083
23. 59	·1074
Jan. 4	
0. 0	·1074
2. 25	·1082
3. 36	·1080
3. 50	·1084
4. 9	·1081
7. 13	·1086
12. 15	·1085
12. 41	·1088
13. 43	·1079
13. 57	·1081
14. 16	·1078
Jan. 4	
14. 32	·1082
15. 6	·1076
15. 30	·1076
16. 0	·1074
16. 31	·1076
17. 4	·1071
18. 36	·1072
20. 12	·1072
20. 36	·1068
23. 59	·1062
Jan. 5	
0. 0	·1062
2. 55	·1068
4. 50	·1068
5. 6	·1065
5. 15	·1066
6. 37	·1062
7. 26	·1066
7. 48	·1062
9. 18	·1066
9. 30	·1076
10. 12	·1066
13. 18	·1066
18. 24	·1084
19. 52	·1086
22. 30	·1078
22. 58	·1084
23. 29	·1081
23. 59	·1082

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Jan. 1	
0. 0	·00936
0. 25	·00944
2. 21	·00880
	·00917
7. 15	·00930
	·01102
9. 52	·01040
18. 7	·00994
23. 59	·00965
Jan. 2	
1. 0	·01556
3. 45	·01510
	·01476
6. 29	·01351
6. 45	·01356
7. 16	·01358
8. 50	·01596
12. 51	·01812
15. 11	·01760
22. 37	·01815
23. 59	·01754
Jan. 3	
1. 39	·01615
3. 10	·01508
5. 0	·01317
6. 33	·01220
7. 37	·01236
10. 0	·01377
17. 30	·01760
	·01714
23. 35	·01712
Jan. 4	
0. 0	·01703
2. 51	·01735
8. 38	·01612
16. 0	·01540
20. 4	·01473
23. 59	·01455

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Jan. 1		
1. 40	52·0	52·0
3. 40	53·0	53·3
9. 40	53·7	53·3
21. 40	..	50·0
Jan. 2		
1. 40	50·8	51·6
3. 40	51·8	51·6
9. 40	51·5	52·0
21. 40	47·5	48·5
Jan. 3		
1. 40	50·0	51·0
3. 40	51·0	51·5
9. 40	49·0	49·4
23. 25	45·0	46·0
Jan. 4		
6. 40	45·8	46·4
12. 40	45·1	46·6
13. 40	45·8	46·4
14. 40	46·0	46·5
15. 40	46·3	46·6
16. 40	47·0	46·8
17. 40	47·5	47·0
18. 40	47·9	47·0
19. 40	48·1	47·1
20. 40	48·2	47·0
21. 40	48·0	46·5

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Jan. 4		
22. 40	48·0	46·6
23. 40	48·0	46·6
Jan. 5		
0. 40	47·8	46·5
1. 40	47·7	46·3
2. 40	48·0	46·5
3. 40	48·0	46·5
4. 40	48·2	46·5
5. 40	48·0	46·5
6. 40	47·0	47·3
7. 40	47·5	48·0
8. 40	47·0	47·0
9. 40	46·2	45·5
10. 40	46·0	44·3
11. 40	45·8	45·0
21. 40	41·3	42·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

The Declination Magnet was under adjustment till January 4; the Horizontal Force Magnet till January 3.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 5								
h m	° ′ ″	h m		h m		h m	°	°
21. 37	21. 36. 45							
22. 11	36. 50							
23. 1	39. 0							
23. 8	38. 40							
23. 41	38. 30							
23. 59	38. 55							
Jan. 6		Jan. 6		Jan. 6		Jan. 6		
0. 0	21. 39. 0	0. 0	·1082	0. 36	·01695	1. 40	44 ·0	42 ·7
0. 40	40. 50	0. 28	·1084	1. 30	·01680	3. 40	44 ·5	43 ·5
	(†)	1. 30	·1081	2. 5	·01692	9. 40	44 ·5	44 ·5
2. 26	38. 45	2. 18	·1082	3. 52	·01598	21. 40	40 ·0	41 ·5
3. 30	38. 0	4. 0	·1075	7. 30	·01364			
3. 52	38. 10	4. 23	·1076	10. 0	·01296			
4. 30	37. 40	4. 54	·1073	17. 39	·01443			
5. 14	37. 40	10. 10	·1081	21. 36	·01640			
5. 48	37. 5	13. 35	·1084		·01593			
6. 38	37. 0	20. 18	·1100	23. 59	·01615			
7. 11	36. 45	23. 54	·1087					
7. 43	37. 30							
9. 10	36. 50							
9. 30	37. 20							
9. 42	37. 0							
10. 8	37. 10							
10. 21	37. 0							
10. 50	37. 20							
13. 30	38. 30							
15. 48	38. 20							
21. 28	36. 50							
22. 22	37. 30							
22. 36	38. 5							
23. 18	38. 0							
23. 32	38. 45							
23. 59	39. 30							
Jan. 7		Jan. 7		Jan. 7		Jan. 7		
0. 0	21. 39. 30	0. 0	·1088	0. 0	·01600	1. 40	41 ·0	41 ·7
1. 40	39. 57*	0. 58	·1090	2. 0	·01611	3. 40	42 ·0	42 ·0
3. 40	40. 1*	1. 27	·1089	3. 36	·01570	9. 40	43 ·0	43 ·2
9. 40	37. 22*	1. 52	·1082	8. 20	·01261	21. 40	40 ·4	41 ·0
21. 57	38. 6*	2. 14	·1082	11. 4	·01155			
		2. 22	·1079	15. 2	·01123			
		3. 6	·1079	20. 22	·01318			
		3. 16	·1082	23. 59	·01455			
		3. 30	·1080					
		3. 46	·1081					
		4. 5	·1076					
		4. 19	·1078					
		4. 47	·1074					
		5. 16	·1079					
		5. 54	·1074					
		6. 16	·1074					
		6. 30	·1077					
		7. 3	·1073					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in Parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Jan. 7						
h m	° ′ ″	h m		h m		h m	°	°
		7. 21	·1076					
		7. 31	·1069					
		8. 0	·1077					
		8. 7	·1081					
		8. 15	·1074					
		12. 25	·1078					
		13. 0	·1085					
		13. 27	·1081					
		14. 39	·1082					
		15. 1	·1086					
		15. 23	·1086					
		17. 37	·1091					
		17. 55	·1087					
		18. 47	·1094					
		19. 15	·1090					
		19. 28	·1092					
		20. 0	·1090					
		22. 54	·1076 (†)					
Jan. 8		Jan. 8		Jan. 8		Jan. 8		
1. 5	21. 41. 40	1. 7	·1076	1. 6	·01460	1. 40	41 ·0	41 ·6
		5. 16	·1068	2. 4	·01482	3. 40	44 ·0	45 ·0
3. 29	40. 0	6. 10	·1076	3. 25	·01457	7. 36	44 ·5	44 ·7
3. 45	38. 20	8. 4	·1078	5. 12	·01342	21. 40	45 ·1	45 ·1
5. 10	38. 30	9. 43	·1074	8. 56	·01011			
6. 1	36. 5	11. 7	·1076	11. 5	·00900			
9. 15	35. 30	12. 39	·1073	20. 10	·00727			
9. 44	34. 30	13. 44	·1083	23. 21	·00711			
10. 17	35. 40	14. 2	·1078					
11. 31	36. 0	19. 34	·1086					
12. 0	35. 30	23. 46	·1079					
12. 54	36. 30	23. 59	·1082					
13. 3	35. 30							
13. 44	36. 5							
14. 44	37. 0							
21. 33	35. 30							
22. 50	37. 35							
23. 24	37. 55							
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 7	21. 37. 30	0. 0	·1082	0. 0	·00694	1. 40	47 ·5	47 ·2
0. 22	37. 5	0. 21	·1079	0. 40	·00680	3. 40	49 ·0	47 ·6
0. 48	37. 10	0. 43	·1079	2. 6	·00734	9. 48	49 ·8	50 ·0
		0. 59	·1082	4. 21	·00781	21. 40	49 ·2	49 ·6
1. 40	38. 10	3. 27	·1077	5. 28	·00760 ·00812			
3. 0	37. 30	5. 46	·1078					
5. 32	36. 35	13. 25	·1079	23. 21	·00787			
10. 0	35. 20	16. 10	·1083					
11. 18	36. 0	20. 11	·1084					
15. 3	37. 40	23. 59	·1074					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 9								
h m	° ′ ″	h m		h m		h m	°	°
18. 54	21. 37. 0							
22. 2	35. 30							
22. 16	36. 0							
23. 39	37. 30							
23. 59	38. 0							
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
0. 0	21. 38. 0	0. 0	·1074	0. 30	·01240	1. 40	51 ·2	50 ·8
2. 14	38. 5	6. 52	·1073	3. 0	·01118	3. 40	52 ·3	51 ·5
4. 41	36. 30	7. 46	·1070	4. 7	·01020	9. 40	52 ·3	52 ·3
5. 0	37. 0	8. 32	·1064		·01060	22. 46	49 ·0	49 ·6
6. 54	36. 0	9. 54	·1071	8. 4	·01014			
8. 12	36. 30	10. 5	·1075	9. 6	·01027			
8. 40	34. 25		***	13. 17	·01196			
9. 2	34. 50	13. 48	·1075	20. 52	·01305			
9. 12	34. 30	14. 56	·1084	22. 34	·01354			
10. 15	36. 0	15. 8	·1081					
11. 13	35. 30	15. 36	·1085					
11. 54	36. 20	16. 47	·1082					
12. 6	36. 50	18. 27	·1089					
12. 30	36. 20	19. 34	·1078					
13. 32	37. 35	20. 10	·1086					
13. 55	37. 0	21. 52	·1070					
14. 9	38. 0	22. 12	·1072					
14. 22	37. 30	23. 22	·1064					
14. 29	37. 35	23. 59	·1067					
14. 48	36. 30							
15. 12	36. 20							
15. 28	37. 5							
15. 54	33. 55							
16. 6	34. 20							
16. 14	33. 30							
16. 24	33. 30							
16. 43	35. 55							
16. 52	36. 20							
17. 13	37. 30							
17. 24	36. 30							
	***							
18. 23	36. 0							
19. 11	37. 15							
19. 42	40. 30							
	***							
20. 47	40. 50							
20. 58	38. 20							
21. 29	36. 30							
	***							
21. 56	36. 30							
22. 33	37. 50							
22. 57	38. 0							
23. 43	40. 5							
23. 59	40. 0							
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 0	21. 40. 0	0. 0	·1067	0. 0	·01377	11. 11	46 ·0	47 ·0
1. 11	38. 50	2. 10	·1076	8. 21	·01617	12. 40	47 ·1	47 ·7
1. 24	39. 30	6. 9	·1074	13. 31	·01693	13. 40	47 ·0	47 ·6
1. 31	39. 10	6. 26	·1069		·01650	14. 40	47 ·2	47 ·2
3. 1	39. 20	6. 54	·1073	14. 20	·01680	15. 40	47 ·3	47 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
h m	° ′ ″	h m		h m		h m		
3. 13	21. 38. 35	7. 24	·1074	14. 37	·01656	16. 40	48 ·2	47 ·5
3. 32	38. 40	8. 30	·1079	16. 22	·01676	17. 40	48 ·2	47 ·2
4. 7	38. 0	8. 51	·1078		·01404	18. 40	48 ·8	47 ·2
6. 28	37. 30	9. 54	·1078	23. 59	·01410	19. 40	49 ·0	47 ·2
6. 52	38. 30	10. 4	·1084			20. 40	49 ·2	47 ·3
7. 23	37. 10	10. 24	·1080			21. 40	49 ·0	47 ·3
8. 10	37. 45	12. 26	·1081			22. 40	49 ·0	47 ·4
8. 49	36. 30	14. 25	·1077			23. 40	49 ·2	47 ·4
13. 2	36. 35	14. 56	·1087					
14. 0	35. 30	15. 35	·1069					
14. 24	36. 20	16. 3	·1075					
14. 44	40. 40	18. 0	·1068					
15. 19	34. 35	19. 0	·1072					
15. 37	37. 30	19. 1	·1068					
16. 7	37. 35	20. 57	·1066					
16. 29	35. 10	23. 59	·1052					
	***							
17. 22	36. 0							
18. 0	37. 10							
18. 45	35. 40							
19. 13	36. 30							
	***							
19. 58	37. 0							
20. 6	36. 10							
	***							
21. 48	35. 25							
	***							
23. 30	37. 0							
	***							
23. 52	38. 5							
23. 59	37. 20							
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	21. 37. 20	0. 0	·1052	1. 30	·01394	0. 40	47 ·6	47 ·7
	***	0. 15	·1054	2. 43	·01290	1. 40	50 ·2	48 ·3
0. 36	38. 25		***	4. 50	·01046	2. 40	51 ·3	49 ·0
1. 16	39. 0	2. 30	·1064	6. 47	·01024	3. 40	52 ·2	49 ·5
1. 45	40. 30		***		·01166	4. 40	52 ·3	50 ·3
2. 15	39. 0	4. 52	·1051	7. 45	·01160	5. 40	53 ·0	50 ·7
2. 33	39. 20		***	8. 21	·01196	6. 40	52 ·6	50 ·4
	***	7. 11	·1049	8. 48	·01214	7. 40	52 ·4	50 ·3
3. 0	38. 20	7. 26	·1053	9. 6	·01255	8. 40	52 ·4	50 ·3
3. 29	38. 45	7. 45	·1046	9. 52	·01260	9. 40	52 ·0	50 ·0
3. 44	37. 30	8. 4	·1049	16. 6	·01497	10. 40	51 ·5	50 ·0
4. 46	38. 30	8. 15	·1046	18. 24	·01641	11. 40	51 ·5	50 ·0
4. 58	37. 30	8. 27	·1049	18. 33	·01625	21. 40	45 ·0	45 ·2
5. 30	36. 30	8. 39	·1038	22. 37	·01597			
6. 0	38. 30	9. 0	·1063	23. 59	·01618			
	***	9. 46	·1049					
6. 30	37. 30	10. 58	·1057					
6. 44	38. 10	11. 16	·1054					
	***		***					
7. 17	37. 20	17. 20	·1074					
7. 33	38. 40	20. 11	·1081					
8. 0	36. 30	21. 32	·1077					
8. 11	36. 0	21. 47	·1072					
8. 15	36. 35	23. 50	·1068					
8. 36	34. 20							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Jan. 12								
h m	° ′ ″	h m		h m		h m	°	
8. 58	21. 24. 30							
9. 19	33. 50							
9. 32	32. 30							
10. 48	33. 45							
11. 37	33. 25							
12. 15	35. 20							
14. 5	36. 0							
14. 53	37. 10							
19. 9	36. 30							
19. 44	37. 30							
20. 0	36. 25							
22. 12	35. 50							
22. 57	38. 0							
23. 59	39. 10							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	21. 3 .. 15	0. 0	·1066	0. 6	·01615	1. 40	45 ·5	45 ·3
0. 26	38. 30	1. 25	·1066	3. 9	·01637	3. 40	45 ·7	45 ·2
1. 0	39. 55	2. 2	·1060	5. 7	·01580	9. 40	48 ·0	47 ·4
	***	2. 35	·1068	8. 45	·01412	21. 40	41 ·5	42 ·7
3. 15	37. 35	3. 30	·1064	14. 20	·01371			
4. 14	37. 40	4. 5	·1066	14. 49	·01475			
5. 0	37. 0	5. 0	·1066	19. 5	·01616			
6. 42	37. 0	6. 10	·1067		·01538			
7. 43	35. 30	7. 45	·1062	23. 31	·01551			
8. 15	36. 0	8. 10	·1064					
8. 32	35. 30	8. 46	·1062					
10. 9	35. 10	9. 43	·1064					
10. 27	34. 30	11. 21	·1064					
10. 53	35. 35	11. 37	·1068					
11. 23	34. 0	12. 13	·1066					
14. 40	37. 30	17. 15	·1087					
17. 27	37. 20	20. 25	·1094					
19. 53	37. 35	23. 59	·1070					
22. 10	36. 25							
22. 14	35. 30							
22. 18	37. 5							
22. 25	35. 35							
22. 32	37. 0							
22. 58	36. 30							
23. 59	38. 20							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 0	21. 38. 20	0. 0	·1070	0. 0	·01557	1. 40	43 ·3	43 ·2
0. 45	41. 30		***	0. 45	·01564	3. 40	45 ·5	45 ·0
1. 7	40. 55	0. 29	·1069		·01397	9. 40	45 ·5	46 ·0
1. 18	41. 30		***	2. 36	·01380	21. 40	37 ·3	38 ·8
1. 44	40. 30	0. 47	·1074	7. 38	·00878			
3. 0	39. 25		***	9. 0	·00822			
4. 3	37. 20	1. 12	·1068	10. 51	·00835			
8. 25	36. 45		***	11. 4	·00856			
8. 43	35. 50	1. 27	·1072		·00975			
8. 57	36. 30		***	14. 0	·01200			
9. 5	35. 40	1. 46	·1068	16. 54	·01512			
9. 17	36. 30		***	17. 4	·01496			
9. 30	35. 30	2. 52	·1072	23. 59	·01496			
10. 4	36. 30		***					
10. 22	35. 40	3. 44	·1072					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
Jan. 14		Jan. 14						
h m	° ′ ″	h m		h m		h m	°	
12. 52	21. 35. 30	4. 4	·1069					
13. 15	36. 35		***					
13. 49	36. 55	5. 26	·1070					
14. 41	37. 55	9. 3	·1071					
15. 30	37. 30	9. 40	·1078					
15. 55	39. 0	10. 16	·1074					
	***		***					
18. 0	37. 0	14. 24	·1089					
18. 14	37. 35	16. 35	·1092					
18. 30	37. 0	16. 52	·1095					
18. 45	38. 0	17. 0	·1098					
19. 40	38. 0	20. 39	·1101					
	***	22. 0	·1092					
21. 14	36. 10	23. 59	·1080					
22. 25	37. 0							
22. 40	36. 10							
23. 19	37. 30							
23. 49	36. 30							
23. 59	36. 35							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 0	21. 36. 35	0. 0	·1080	0. 30	·01500	1. 40	40 ·0	40 ·6
	***	1. 43	·1081	1. 30	·01474	3. 4	41 ·8	43 ·0
2. 40	38. 40	3. 9	·1072	3. 6	·01507	9. 4	45 ·3	46 ·7
	***	3. 21	·1084	4. 52	·01143	21. 40	42 ·7	44 ·0
4. 45	36. 30	4. 13	·1081	6. 53	·00807			
	***	4. 28	·1075	8. 32	·00881			
7. 30	37. 30	4. 40	·1083	14. 7	·00796			
8. 15	27. 0	5. 26	·1085	17. 0	·00845			
8. 46	34. 30	6. 13	·1083	20. 38	·00996			
9. 3	33. 5	6. 29	·1078	23. 59	·01157			
9. 17	33. 10	6. 37	·1081					
10. 5	35. 30	8. 16	·1052					
10. 58	33. 40	8. 36	·1062					
12. 15	35. 35	8. 48	·1061					
12. 36	34. 30	9. 44	·1076					
13. 15	36. 0	9. 53	·1070					
15. 8	37. 30	10. 0	·1074					
	***	10. 15	·1074					
20. 40	37. 0	10. 32	·1079					
	***	11. 2	·1069					
22. 8	35. 30	11. 12	·1074					
	***	11. 18	·1069					
22. 54	37. 15	11. 30	·1069					
	(†)	11. 47	·1077					
		12. 0	·1076					
		12. 23	·1083					
		12. 40	·1078					
		16. 34	·1092					
		17. 18	·1091					
		18. 24	·1097					
		19. 9	·1098					
		20. 4	·1089					
		20. 40	·1083					
		23. 3	·1080					
			(†)					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Jan. 15	
h m	′ ″
	(†)
1. 2	21. 39. 0
1. 26	38. 0
1. 50	39. 30
	***
2. 44	39. 30
3. 0	40. 30
4. 3	38. 0
	***
6. 15	36. 0
7. 18	35. 45
8. 0	31. 30
	***
8. 45	31. 5
9. 5	25. 0
9. 27	24. 5
9. 44	32. 50
9. 56	22. 30
10. 10	27. 5
10. 42	18. 45
11. 0	22. 5
11. 24	20. 0
11. 42	22. 35
12. 16	35. 10
12. 45	21. 20
13. 12	25. 30
13. 25	23. 30
13. 42	37. 30
13. 58	38. 50
14. 7	38. 0
14. 36	27. 0
	***
14. 49	29. 50
14. 57	28. 45
15. 5	31. 30
15. 11	30. 0
15. 26	31. 0
15. 42	35. 30
15. 50	37. 30
16. 4	36. 25
16. 15	37. 10
16. 29	36. 0
17. 3	35. 5
17. 42	38. 15
18. 10	37. 35
18. 15	38. 45
18. 27	37. 30
	***
19. 30	38. 0
19. 54	39. 35
	***
23. 0	34. 30
	***
23. 15	37. 40
23. 43	37. 0
23. 59	40. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 16	
h m	(†)
	·1078
1. 17	·1069
1. 45	·1068
2. 40	·1074
2. 50	·1081
3. 28	·1076
4. 0	·1080
4. 45	·1070
5. 2	·1082
5. 20	·1077
6. 12	·1078
7. 56	·1068
8. 32	·1051
9. 18	·1059
9. 43	·1086
10. 21	·1049
10. 40	·1052
10. 54	·1046
11. 7	·1022
11. 19	·1024
11. 28	·1034
11. 52	·1036
12. 0	·1047
12. 16	·1052
	----
12. 45	·1029
	***
13. 0	·1055
	***
13. 16	·1056
	***
13. 35	·1040
	***
13. 46	·1085
	***
14. 34	·1046
	***
15. 10	·1062
	***
15. 37	·1035
	***
17. 22	·1076
	***
17. 58	·1078
	***
18. 25	·1085
	***
18. 30	·1082
	***
19. 0	·1092
	***
19. 6	·1087
	***
19. 33	·1087
	***
20. 12	·1075
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 16	
h m	
0. 53	·01197
2. 6	·01172
4. 22	·00968
	·00955
	·00882
4. 37	·00937
8. 6	·00934
8. 15	·01000
9. 24	·01042
9. 42	·00990
11. 4	·00983
11. 45	·01024
12. 22	·00970
12. 47	·01012
13. 21	·00980
13. 25	·01001
13. 53	·00940
	·00958
16. 0	·01150
19. 8	·01405
22. 0	·01700
22. 37	·01672
23. 59	·01669

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 16		
h m		
1. 40	45·0	45·0
3. 40	47·2	47·5
9. 40	50·0	49·0
21. 40	43·5	43·2

Göttingen Mean Solar Time.	Western Declination.
Jan. 17	
h m	′ ″
0. 0	21. 40. 15
0. 19	42. 30
0. 30	41. 0
0. 48	42. 0
1. 15	39. 0
2. 44	41. 30
3. 9	36. 20
3. 15	37. 0
3. 39	32. 30
4. 16	39. 30
4. 29	38. 10
4. 42	41. 0
	***
5. 40	37. 0
6. 27	37. 45
	***
7. 11	36. 0
7. 42	36. 40
	***
8. 35	33. 0
9. 11	34. 40
10. 0	32. 10
10. 30	34. 0
	----
11. 43	33. 0
12. 17	35. 30
15. 42	37. 0
16. 12	36. 30
16. 35	37. 0
	***
21. 54	36. 0
	***
23. 59	39. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 16	
h m	
21. 25	·1080
	***
22. 40	·1068
	***
23. 59	·1068
Jan. 17	
0. 0	·1068
	***
2. 45	·1062
	***
2. 58	·1049
	***
3. 12	·1048
	***
3. 16	·1041
	***
4. 9	·1056
	***
5. 55	·1069
	***
7. 26	·1069
	***
8. 48	·1065
	***
9. 9	·1068
	***
9. 30	·1067
	***
9. 58	·1071
	----
10. 17	·1067
	***
11. 22	·1072
	***
16. 26	·1075
	***
20. 19	·1084
	***
23. 59	·1071
Jan. 18	
0. 0	·1071
0. 52	·1069
2. 45	·1071
2. 54	·1069
3. 17	·1069
3. 40	·1076
5. 56	·1078
6. 15	·1076
6. 32	·1076
6. 52	·1071
7. 15	·1076
8. 53	·1074
9. 10	·1079
9. 24	·1088
9. 42	·1078

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 17	
h m	
0. 52	·01680
1. 55	·01696
2. 39	·01677
3. 0	·01685
3. 34	·01620
4. 30	·01511
6. 39	·01176
9. 23	·00970
12. 0	·00877
17. 9	·00916
	·00874
23. 0	·00950
Jan. 18	
0. 0	·00944
3. 48	·00989
8. 0	·00992
14. 10:	·00970
20. 27	·01030
21. 56	·01038
22. 8	·01077
23. 5	·01060
23. 11	·01158
23. 30	·01162

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 17		
h m		
1. 40	45·5	44·5
3. 40	47·7	47·3
9. 40	48·1	48·0
22. 55	47·0	47·5
Jan. 18		
8. 5	49·5	51·0
12. 40	50·5	51·0
13. 40	51·0	51·4
14. 40	50·7	51·5
15. 40	51·0	52·0
16. 40	51·5	52·6
17. 40	52·0	53·2
18. 40	52·5	53·6
19. 40	53·5	54·0
20. 40	53·7	54·0
21. 40	54·0	53·9
22. 40	54·4	53·5
23. 40	54·1	54·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 18		Jan. 18						
h m	° ′ ″	h m		h m		h m		
9. 11	21. 29. 30	10. 9	·1075					
9. 40	34. 0	12. 52	·1078					
10. 15	36. 0	16. 10	·1069					
14. 0	36. 10	17. 35	·1072					
	***	19. 9	·1067					
14. 55	37. 30	19. 50	·1073					
	***	23. 59	·1059					
16. 30	36. 0							
	***							
18. 45	37. 0							
	***							
21. 0	35. 0							
	***							
23. 4	37. 40							
	***							
23. 59	37. 30							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 0	21. 37. 30	0. 0	·1059	1. 30	·01200	0. 40	54 ·5	54 ·0
2. 12	39. 5		***	2. 38	·01286	1. 40	55 ·0	54 ·0
2. 44	39. 50	2. 37	·1058	3. 37	·01328	2. 40	55 ·3	54 ·2
	***		***	4. 15	·01388	3. 40	55 ·7	54 ·0
3. 29	35. 0	3. 10	·1045	5. 0	·01400	4. 40	55 ·9	54 ·4
3. 56	35. 30	4. 6	·1055	5. 21	·01435	5. 40	55 ·9	54 ·1
4. 40	38. 45	5. 30	·1050	6. 36	·01474	6. 40	55 ·9	54 ·1
5. 15	37. 30	8. 27	·1053	10. 30	·01795	7. 40	56 ·0	54 ·1
5. 41	37. 45	10. 27	·1050	12. 12:	·01936	8. 40	55 ·2	53 ·5
5. 58	37. 0	11. 13	·1052	19. 0:	·01770	9. 40	55 ·0	53 ·2
10. 24	34. 0	11. 54	·1060	23. 42	·01770	10. 40	54 ·9	52 ·8
10. 44	31. 35	12. 23	·1052			11. 40	54 ·2	52 ·2
11. 2	31. 30	12. 42	·1055			21. 40	46 ·0	46 ·0
11. 18	33. 30	13. 8	·1055					
11. 43	32. 0	13. 22	·1056					
12. 8	33. 30	15. 10	·1065					
12. 30	33. 0	16. 0	·1071					
	***	18. 39	·1080					
14. 30	36. 50	20. 8	·1083					
	***	23. 59	·1071					
18. 2	37. 30							
	***							
21. 40	35. 30							
	***							
22. 20	36. 0							
	***							
23. 59	37. 35							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 0	21. 37. 35	0. 0	·1071	0. 2	·01841	1. 40	47 ·0	46 ·7
0. 15	38. 20	0. 15	·1072	1. 26	·01836	3. 40	48 ·2	47 ·8
1. 22	37. 50	0. 46	·1068	1. 50	·01805	9. 40	47 ·8	47 ·0
2. 15	38. 30	1. 19	·1067	2. 27	·01810	21. 40	42 ·9	43 ·8
2. 41	37. 30	1. 30	·1071	5. 6	·01683			
5. 11	35. 30	3. 9	·1064	8. 0	·01415			
6. 45:	35. 0	3. 48	·1068	10. 19	·01340			
7. 45	35. 30	5. 50	·1072	15. 15	·01514			
18. 17	37. 30	9. 45	·1073	17. 5	·01755			
20. 22	35. 40	13. 54	·1082		·01697			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 20		Jan. 20		Jan. 20				
h m	° ′ ″	h m		h m		h m		
22. 33	21. 37. 10	20. 39	·1091	23. 59	·01690			
23. 59	39. 30	23. 59	·1074					
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
0. 0	21. 39. 30	0. 0	·1074	0. 0	·01712	1. 40	·44	·0 43 ·3
	***	0. 9	·1074	2. 23	·01715	3. 40	46	·0 45 ·0
1. 14	40. 40	0. 19	·1076	3. 47	·01628	9. 50	46	·5 46 ·0
3. 2	38. 20	0. 56	·1068	8. 8	·01200	21. 40	40	·7 42 ·0
3. 15	38. 30	2. 8	·1068	10. 13	·01169			
3. 42	37. 35	2. 43	·1070	15. 15	·01380			
6. 14	35. 20		***	20. 51	·01694			
9. 8	35. 30	3. 39	·1067		·01660			
15. 34	37. 10		***	23. 15	·01650			
18. 6	36. 55	4. 45	·1068	23. 59	·01635			
21. 30	35. 10		***					
22. 30	37. 0	8. 34	·1080					
	(†)	9. 28	·1080					
		10. 30	·1084					
		16. 16	·1099					
		20. 30	·1104					
		22. 36	·1091					
			(†)					
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 30	21. 38. 20	0. 18	·1087	0. 19	·01624	1. 40	43 ·5	44 ·0
2. 30	38. 10	1. 41	·1083	1. 42	·01570	3. 40	45 ·8	45 ·7
4. 21	36. 35	3. 17	·1084	4. 52	·01295	9. 40	47 ·2	45 ·3
11. 43	34. 45	7. 54	·1075	6. 39	·01108	21. 40	44 ·9	45 ·0
12. 33	32. 50	9. 41	·1078	7. 57	·01031			
13. 6	34. 30	10. 9	·1082	11. 51	·00980			
13. 30	34. 30	11. 57	·1078	13. 53	·00996			
13. 45	36. 0	12. 4	·1084	19. 6	·00840			
14. 25	36. 45	12. 30	·1080	20. 38	·00861			
14. 39	35. 50	15. 26	·1082	23. 36	·01000			
	***	16. 14	·1086					
15. 3	37. 0	17. 0	·1087					
15. 16	36. 30	17. 15	·1084					
	***	19. 24	·1097					
16. 11	37. 30	20. 10	·1095					
	***	21. 11	·1092					
17. 13	36. 0	21. 39	·1084					
	***	23. 23	·1076					
17. 45	37. 30	23. 59	·1078					
	***							
19. 30	36. 0							
	***							
22. 39	37. 0							
23. 59	40. 30							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 0	21. 40. 30	0. 0	·1078	0. 0	·01025	1. 40	46 ·2	45 ·4
0. 22	39. 25	0. 25	·1078	1. 53	·01004	3. 40	48 ·6	47 ·3
0. 32	40. 0	1. 32	·1076	3. 7	·00940	9. 46	48 ·6	47 ·6
0. 49	38. 50	1. 50	·1078	4. 8	·00840	21. 40	42 ·2	42 ·5
1. 30	40. 0	2. 11	·1075	6. 0	·00867			
1. 43	39. 30	3. 12	·1079	9. 50	·00816			
1. 52	41. 0	4. 4	·1070	10. 39	·00834			
2. 55	38. 45	5. 30	·1075	15. 39	·01217			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 23		Jan. 23		Jan. 23		h m	°	°
h m	° ′ ″	h m		h m				
3. 15	21. 37. 30	6. 34	·1074	23. 5	·01560			
4. 8	37. 0	7. 10	·1057	23. 59	·01578			
4. 30	37. 0	7. 30	·1065					
4. 45	36. 0	7. 34	·1071					
5. 9	39. 30	8. 3	·1075					
5. 31	35. 30	8. 17	·1073					
5. 45	36. 10	8. 27	·1075					
6. 9	35. 30	8. 39	·1074					
6. 17	39. 30	8. 52	·1075					
6. 26	35. 0	9. 9	·1075					
6. 44	36. 0	10. 9	·1074					
7. 20	32. 5	11. 12	·1075					
7. 27	32. 35	11. 30	·1079					
7. 42	32. 0	11. 58	·1077					
	***	12. 14	·1082					
8. 26	36. 5	13. 30	·1081					
	***	19. 30	·1091					
10. 43	36. 0	17. 0	·1094					
11. 8	34. 30	17. 15	·1092					
11. 22	36. 25	18. 32	·1093					
11. 31	34. 30	19. 2	·1097					
11. 47	35. 30	20. 23	·1094					
12. 13	34. 30	21. 6	·1095					
12. 43	33. 35		***					
13. 31	36. 35	22. 15	·1094					
14. 5	36. 0	22. 44	·1089					
14. 36	36. 50	22. 59	·1083					
14. 41	35. 40		(†)					
15. 15	37. 30							
16. 22	37. 30							
17. 4	36. 5							
	***							
17. 29	37. 30							
17. 48	37. 0							
	***							
18. 46	37. 35							
18. 56	37. 0							
	***							
20. 55	37. 30							
21. 14	36. 35							
	***							
22. 10	36. 50							
22. 39	35. 50							
	***							
23. 37	38. 0							
23. 53	37. 30							
23. 59	37. 30							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 0	21. 37. 30	0. 45	·1078	0. 40	·01575	1. 40	44 ·2	44 ·0
1. 32	38. 30	3. 34	·1074	2. 11	·01503	3. 40	46 ·5	45 ·7
4. 27	36. 50	11. 32	·1081	4. 0	·01377	6. 40	48 ·5	47 ·0
7. 45	35. 30	11. 45	·1083	6. 52	·01044	23. 10	41 ·2	42 ·8
10. 45	36. 35	12. 49	·1082	8. 9	·00973			
11. 25	34. 50	14. 22	·1086	10. 0	·00928			
11. 32	35. 20	16. 11	·1097	19. 15	·01140			
11. 59	34. 15	20. 45	·1095	23. 35	·01386			
13. 0	36. 30	20. 57	·1092					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 24		Jan. 24				h m	°	°
h m	° ′ ″	h m						
18. 18	21. 37. 10	22. 36	·1089					
19. 11	36. 15	23. 33	·1083					
20. 8	36. 55							
20. 28	36. 5							
21. 5	36. 0							
22. 0	34. 45							
23. 59	37. 30							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 0	21. 37. 30	0. 4	·1084	0. 0	·01354	6. 35	40 ·8	40 ·0
0. 15	37. 35	1. 34	·1086	5. 35	·01402	12. 40	41 ·5	43 ·0
0. 29	38. 50	2. 10	·1090	13. 51	·01529	13. 40	41 ·5	43 ·0
0. 58	38. 0	2. 41	·1089	19. 6	·01575	14. 40	41 ·8	43 ·0
1. 22	40. 40	3. 37	·1096	21. 38	·01574	15. 40	41 ·8	43 ·0
2. 28	41. 10	4. 30	·1087	23. 51	·01426	16. 40	41 ·7	42 ·8
3. 11	39. 10	4. 46	·1092			17. 40	42 ·1	42 ·7
3. 30	39. 50	4. 55	·1089			18. 40	42 ·1	42 ·8
4. 13	39. 25	5. 9	·1092			19. 40	42 ·0	42 ·7
4. 45	39. 15	5. 16	·1090			20. 40	42 ·1	42 ·8
5. 4	39. 55	5. 42	·1092			21. 40	43 ·2	43 ·2
5. 52	38. 20	5. 53	·1088			22. 40	43 ·5	43 ·7
5. 58	38. 50	6. 4	·1090			23. 40	44 ·2	44 ·0
6. 5	38. 0	6. 18	·1082					
6. 20	40. 30	10. 54	·1080					
6. 44	39. 50	12. 48	·1086					
7. 30	41. 45	13. 10	·1085					
	***	13. 24	·1079					
8. 19	38. 40	14. 46	·1078					
8. 35	36. 20	15. 43	·1085					
8. 44	37. 40	15. 47	·1082					
8. 54	37. 0	16. 11	·1086					
9. 18	38. 0	16. 31	·1087					
9. 55	29. 20	16. 54	·1079					
10. 15	29. 0	17. 54	·1077					
	***	18. 7	·1083					
11. 0	33. 30	18. 20	·1087					
11. 43	34. 40	18. 45	·1088					
12. 5	33. 20	18. 48	·1083					
12. 27	35. 30	19. 7	·1088					
12. 36	35. 0	19. 32	·1084					
13. 47	38. 0	19. 47	·1081					
15. 50	38. 10	19. 54	·1083					
16. 9	37. 30	20. 45	·1076					
	***	23. 50	·1074					
17. 52	38. 30							
18. 55	37. 25							
19. 53	37. 50							
	***							
21. 22	34. 20							
	***							
22. 39	34. 30							
	***							
23. 37	37. 0							
23. 42	36. 0							
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 26	21. 38. 30	0. 0	·1074	0. 40	·01420	0. 40	45 ·0	44 ·4
0. 42	39. 55	9. 5	·1076	3. 49	·01267	1. 40	45 ·1	44 ·4
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Jan. 26	
h m	° ′ ″
2. 10	21. 40. 30
3. 43	39. 45
4. 12	37. 35
4. 30	38. 20
5. 15	37. 0
6. 58	36. 40
7. 17	34. 15
7. 43	34. 30
8. 6	36. 30
8. 30	35. 0
8. 46	35. 45
10. 0	34. 30
10. 36	36. 50
10. 57	32. 50
11. 29	33. 25
11. 55	33. 30
12. 31	35. 30
13. 2	35. 45
13. 36	34. 10
	***
17. 6	38. 20
17. 30	37. 15
17. 58	37. 30
20. 26	36. 15
22. 10	34. 0
23. 59	36. 5
Jan. 27	
0. 0	21. 36. 10
0. 56	37. 20
1. 8	38. 10
2. 20	38. 45
3. 30	37. 50
4. 36	38. 25
5. 30	36. 30
6. 9	38. 0
6. 18	37. 35
6. 35	38. 0
6. 45	36. 30
8. 19	36. 0
10. 15	36. 5
11. 15	33. 15
11. 24	33. 40
11. 54	35. 30
12. 28	35. 30
13. 9	33. 10
14. 35	37. 35
14. 57	37. 25
15. 30	38. 0
15. 48	37. 20
	***
17. 10	38. 30
	***
20. 0	37. 30
	***
22. 11	35. 35
	***
23. 59	37. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 26	
h m	
9. 30	·1078
17. 28	·1082
18. 37	·1087
19. 26	·1088
20. 30	·1090
22. 5	·1083
23. 59	·1081

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 26	
h m	
9. 8	·00971
15. 7	·00889
18. 35	·00985
22. 6	·01176
23. 59	·01248
Jan. 27	
0. 36	·01266
3. 15	·01277
6. 4	·01100
8. 0	·00975
9. 48	·00953
13. 40	·01134
18. 49	·01602
18. 53	·01572
22. 21	·01536
	·01441
23. 59	·01509

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F.	Of V. F.
Jan. 26		
h m		
2. 40	45·2	44·7
3. 40	45·3	45·1
4. 40	46·0	46·2
5. 40	47·3	46·3
6. 40	47·0	46·0
7. 40	47·4	46·1
8. 40	47·3	46·2
9. 40	47·0	46·0
10. 40	47·0	46·0
11. 40	47·8	46·0
21. 40	42·2	42·0
Jan. 27		
1. 40	43·0	43·7
3. 40	44·7	44·4
9. 40	44·0	44·3
21. 40	45·3	45·8

Göttingen Mean Solar Time.	Western Declination.
Jan. 28	
h m	° ′ ″
0. 0	21. 37. 40
	***
2. 0	40. 20
2. 16	38. 45
3. 20	38. 0
	***
4. 2	38. 0
	***
4. 17	37. 20
	***
5. 33	36. 30
6. 2	37. 0
11. 7	34. 45
11. 23	33. 0
11. 45	31. 0
12. 12	32. 40
12. 26	32. 0
12. 55	32. 45
13. 7	34. 40
13. 30	34. 15
	***
14. 15	36. 40
15. 6	35. 35
	***
16. 15	37. 50
16. 50	37. 50
	***
17. 12	36. 5
	***
18. 42	36. 15
19. 1	37. 0
	***
20. 9	36. 30
20. 15	37. 15
	***
21. 44	36. 0
23. 7	35. 30
	***
23. 59	37. 35
Jan. 29	
0. 0	21. 37. 35
	***
1. 27	40. 0
2. 36	40. 10
3. 12	38. 25
3. 41	37. 50
5. 28	36. 30
7. 57	36. 0
12. 38	35. 35
12. 11	36. 30
12. 36	35. 30
13. 26	37. 45
13. 58	36. 20
15. 7	39. 0
15. 43	37. 40
	***
17. 54	37. 20
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Jan. 29	
h m	
3. 40	·1096*
9. 40	·1101*
21. 40	·1124*

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Jan. 28	
h m	
0. 36	·01517
2. 6	·01020
3. 19	·01475
4. 7	·01420
7. 10	·01080
8. 52	·00955
11. 37	·00865
14. 36	·00840
17. 45	·00907
20. 19	·01045
23. 59	·01350
Jan. 29	
0. 47	·01367
2. 20	·01355
3. 0	·01360
4. 9	·01280
6. 15	·01187
8. 30	·00867
10. 41	·00776
13. 36	·00844
19. 0	·01060
22. 7	·01461
	·01424
23. 59	·01455

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F.	Of V. F.
Jan. 28		
h m		
1. 40	37. 5	38. 8
3. 40	37. 3	37. 4
21. 40	41. 0	41. 0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

January 27 and 28. The results of Magnetic Horizontal Force show no change; it is suspected that the magnet was resting against the copper bar.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 29								
h m	° ′ ″	h m		h m		h m	°	°
22. 0	21. 35. 0							
	***							
23. 55	37. 40							
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
0. 26	21. 38. 10	0. 23	·1114	0. 45	·01457	1. 40	34 ·2	35 ·0
	***		***	2. 33	·01450	3. 40	37 ·1	37 ·0
1. 39	39. 50	2. 15	·1111	2. 52	·01083	9. 40	41 ·1	39 ·4
5. 48	36. 20		***	4. 6	·00978	21. 40	39 ·5	40 ·5
6. 15	36. 40	3. 6	·1112	6. 35:	·00669			
7. 56	34. 35		***	23. 59	·00637			
8. 14	33. 20	3. 21	·1116					
8. 54	35. 30		***					
9. 18	33. 55	5. 25	·1118					
9. 54	34. 30	7. 32	·1111					
10. 26	32. 45	8. 10	·1113					
11. 0	34. 0	9. 9	·1108					
12. 8	34. 30	9. 16	·1111					
14. 9	34. 40	10. 0	·1103					
15. 23	36. 45	10. 44	·1110					
15. 48	36. 15	11. 7	·1108					
	***	11. 43	·1112					
18. 0	37. 0	12. 8	·1110					
	***	12. 30	·1113					
22. 15	34. 30	15. 10	·1115					
23. 32	36. 25	15. 25	·1118					
23. 59	37. 30	20. 25	·1122					
			***					
		22. 15	·1112					
			***					
		23. 37	·1106					
		23. 59	·1108					
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 0	21. 37. 30	0. 0	·1108	0. 40	·00625	1. 40	41 ·4	41 ·3
			***	1. 54	·00674	3. 40	43 ·0	42 ·5
1. 41	40. 30			2. 35	·00816	9. 40	41 ·2	42 ·0
2. 44	40. 10	1. 10	·1108			22. 32	34 ·2	36 ·2
3. 17	38. 35		***	5. 13	·00780			
3. 43	39. 15	2. 19	·1116		·00948			
			***	6. 6	·00907			
4. 45	37. 30			10. 15	·00950			
5. 6	37. 40	3. 14	·1108	13. 37	·01043			
5. 19	37. 10		***	16. 49	·01256			
	***	4. 20	·1115	20. 22	·01577			
6. 45	38. 40		***	20. 48	·01560			
7. 0	38. 0	4. 37	·1113	22. 37	·01546			
7. 13	38. 10		***		(†)			
7. 30	36. 45	4. 55	·1114					
8. 19	36. 15		***					
8. 29	37. 5	5. 18	·1111					
9. 17	35. 35		***					
10. 10	35. 25	6. 7	·1116					
10. 39	32. 25		***					
11. 29	35. 0	6. 40	·1113					
11. 47	33. 40		***					
	***	6. 49	·1120					
12. 37	32. 30		***					
	***	7. 14	·1117					
12. 59	35. 0		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 31		Jan. 31						
h m	° ′ ″	h m		h m		h m	°	°
13. 33	21. 32. 40	7. 26	·1123					
			***					
14. 0	35. 40							
15. 15	37. 10	7. 46	·1122					
15. 33	36. 30		***					
	***	8. 7	·1124					
16. 58	38. 0		***					
	***	8. 16	·1119					
17. 54	37. 10		***					
	***	8. 24	·1122					
18. 42	38. 0		***					
	***	8. 51	·1121					
19. 7	37. 15		***					
	***	9. 6	·1124					
19. 49	38. 30		***					
	***	9. 15	·1121					
22. 6	37. 0	10. 22	·1115					
23. 59	38. 30	11. 52	·1122					
			***					
		12. 23	·1117					
			***					
		13. 7	·1124					
			***					
		15. 10	·1122					
			***					
		21. 2	·1134					
			***					
		21. 27	·1130					
			***					
		22. 30	·1132					
			(†)					
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 0	21. 38. 30	0. 30	·1126	0. 38	·01520	11. 40	33 ·3	35 ·4
0. 43	39. 25	0. 43	·1123	4. 24	·01533	12. 40	33 ·3	35 ·6
1. 54	41. 35	2. 54	·1133	5. 37	·01550	13. 40	33 ·4	35 ·9
5. 0	39. 10	4. 54	·1128	10. 10	·01422	14. 40	34 ·0	36 ·1
5. 45	38. 10	5. 55	·1134	14. 11	·01215	15. 40	34 ·4	36 ·3
5. 54	37. 15		***	15. 32	·01132	16. 40	35 ·1	36 ·5
6. 7	37. 30	12. 25	·1134		(†)	17. 40	36 ·2	36 ·6
7. 44	36. 45	13. 14	·1129	19. 20	·01544	18. 40	36 ·5	36 ·6
8. 5	35. 30	21. 0	·1126	23. 15	·01557	19. 40	37 ·0	37 ·0
8. 30	36. 25	22. 44	·1116	23. 59	·01534	20. 40	37 ·1	37 ·0
	***		(†)			21. 40	37 ·7	37 ·5
13. 0	35. 55					22. 40	38 ·1	37 ·7
13. 30	38. 55					23. 40	38 ·7	37 ·7
14. 15	35. 50							
16. 22	36. 30							
18. 29	36. 10							
19. 15	36. 55							
20. 10	36. 0							
20. 27	36. 10							
21. 37	35. 30							
22. 43	37. 0							
	(†)							
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
	(†)		(†)		(†)	0. 40	39 ·7	38 ·8
1. 42	21. 41. 20	1. 34	·1113	1. 53	·01116	1. 40	40 ·2	39 ·5

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Göttingen Mean Solar Time.	Western Declination.
Feb. 2	
h m	° ′ ″
2. 23	21. 40. 0
3. 17	39. 40
4. 45	37. 0
6. 13	36. 0
8. 25	36. 0
9. 20	35. 15
9. 44	33. 20
10. 11	35. 0
10. 28	32. 40
10. 44	32. 40
11. 15	35. 0
	***
12. 45	35. 10
19. 50	36. 30
22. 28	35. 30
	***
23. 0	35. 50
	***
23. 59	39. 0
Feb. 3	
0. 0	21. 39. 0
1. 8	40. 45
3. 0	39. 30
4. 8	38. 30
6. 44	35. 45
12. 43	35. 40
14. 4	36. 0
15. 18	36. 15
	***
19. 40	36. 20
21. 42	34. 0
22. 26	34. 30
	(†)
Feb. 4	
1. 40	21. 39. 28*
3. 40	38. 36*
9. 40	35. 39*
21. 40	33. 46*
Feb. 5	
	(†)
1. 40	21. 38. 25*
3. 40	37. 41*
5. 30	37. 0
6. 47	36. 55
7. 26	36. 10
7. 44	36. 45
8. 19	36. 5
8. 46	35. 10
13. 45	36. 30
20. 0	35. 30
	***
22. 10	34. 35
	***
23. 59	38. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 2	
h m	
2. 44	·1116
5. 5	·1115
8. 55	·1111
9. 45	·1107
10. 29	·1111
10. 57	·1108
	***
12. 22	·1114
15. 20	·1118
	(†)
19. 25	·1128
20. 40	·1132
23. 22	·1117
	***
23. 59	·1117
Feb. 3	
1. 40	·1116*
3. 40	·1124*
9. 40	·1120*
21. 46	·1135*
Feb. 4	
1. 40	·1127*
3. 40	·1127*
9. 40	·1123*
21. 45	·1137*
Feb. 5	
	(†)
1. 40	·1131*
3. 40	·1135*
5. 6	·1122
5. 32	·1125
7. 54	·1121
12. 38	·1125
13. 7	·1129
	***
20. 55	·1126
21. 10	·1124
23. 2	·1117
23. 59	·1112

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 2	
h m	
4. 19	·00870
5. 23	·00742
5. 39	·00760
8. 51	·00812
8. 54	·00876
14. 30	·00997
17. 36	·01122
20. 54	·01338
23. 59	·01536
Feb. 3	
0. 29	·01560
2. 56	·01643
3. 45	·01615
6. 18	·01548
8. 21	·01464
11. 15	·01416
16. 0	·01508
19. 0	·01635
22. 34	·01591
	(†)
Feb. 4	
1. 40	·01579*
3. 40	·01501*
9. 40	·00984*
21. 45	·01427*
Feb. 5	
	(†)
1. 40	·01350*
3. 40	·01231*
5. 15	·01182
6. 10	·01140
7. 7	·00988
7. 23	·00984
7. 38	·01017
9. 47	·01097
11. 30	·00894
20. 54	·00870
22. 59	·00919
23. 48	·00960

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 2		
h m	°	°
2. 40	41 ·2	41 ·0
3. 40	42 ·2	42 ·0
4. 40	43 ·2	42 ·0
5. 40	43 ·8	42 ·5
6. 40	44 ·7	43 ·4
7. 40	45 ·1	43 ·6
8. 40	45 ·0	44 ·0
9. 40	45 ·7	44 ·5
10. 40	45 ·7	44 ·5
11. 40	46 ·0	44 ·6
21. 40	39 ·3	40 ·8
Feb. 3		
1. 40	39 ·4	40 ·4
3. 40	40 ·8	41 ·3
9. 40	41 ·1	41 ·3
21. 46	36 ·5	38 ·5
Feb. 4		
1. 40	38 ·0	38 ·5
3. 40	41 ·0	41 ·0
9. 40	41 ·0	41 ·0
21. 45	31 ·0	33 ·0
Feb. 5		
1. 40	34 ·1	34 ·0
3. 40	37 ·0	36 ·5
9. 40	41 ·8	45 ·0
21. 40	43 ·0	43 ·7

Göttingen Mean Solar Time.	Western Declination.
Feb. 6	
h m	° ′ ″
0. 0	21. 38. 0
1. 2	39. 50
2. 45	40. 0
4. 54	37. 0
7. 15	36. 30
7. 28	36. 0
10. 51	35. 35
11. 41	33. 0
12. 30	35. 50
12. 45	34. 30
13. 16	34. 25
	***
14. 13	36. 40
	***
14. 30	35. 20
14. 52	36. 0
15. 4	35. 30
16. 15	37. 0
16. 32	36. 0
	***
17. 28	37. 50
17. 43	36. 50
	***
22. 13	34. 30
	***
23. 45	37. 40
23. 54	37. 20
23. 59	37. 25
Feb. 7	
0. 0	21. 37. 25
	***
2. 31	41. 20
2. 52	40. 40
	***
3. 17	41. 35
	***
5. 27	39. 10
	***
5. 45	39. 55
	***
6. 39	38. 30
	***
7. 10	39. 15
	***
8. 0	38. 20
8. 58	38. 50
9. 11	38. 0
9. 45	35. 0
10. 4	36. 0
10. 24	35. 0
10. 39	37. 45
10. 52	31. 30
11. 0	36. 5
11. 29	29. 10
11. 43	31. 10
11. 55	30. 5
12. 24	25. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 6	
h m	
0. 0	·1112
1. 44	·1101
	***
4. 46	·1114
5. 52	·1111
7. 10	·1112
	***
14. 30	·1111
14. 57	·1112
15. 32	·1110
16. 45	·1114
17. 13	·1112
17. 46	·1117
19. 15	·1116
19. 54	·1121
22. 35	·1116
23. 16	·1107
Feb. 7	
0. 54	·1104
	***
3. 7	·1117
3. 54	·1114
4. 14	·1117
4. 46	·1114
5. 17	·1114
5. 43	·1106
6. 7	·1111
	***
8. 7	·1113
9. 11	·1113
9. 20	·1114
9. 47	·1103
10. 6	·1108
10. 22	·1108
10. 30	·1105
10. 33	·1111
10. 41	·1106
10. 52	·1094
11. 2	·1112
11. 13	·1096
11. 26	·1099
11. 37	·1098
11. 52	·1105
12. 3	·1107
12. 8	·1111
12. 23	·1103

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 6	
h m	
0. 2	·00947
0. 37	·01041
	·01047
3. 52	·01138
15. 7	·01236
18. 49	·01331
23. 17	·01357
Feb. 7	
0. 0	·01553
1. 23	·01560
3. 30	·01474
5. 22	·01320
9. 40	·01409
15. 49	·01640
19. 23	·01913
23. 20	·01934

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 6		
h m	°	°
1. 4	47 ·1	48 ·0
3. 40	50 ·0	50 ·6
9. 40	50 ·0	50 ·6
21. 40	47 ·0	47 ·5
Feb. 7		
1. 40	47 ·0	48 ·5
3. 40	42 ·2	43 ·4
9. 40	48 ·0	48 ·5
22. 35	43 ·7	44 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

February 3. The trace of the Horizontal Force Magnet was too faint for use.

February 4. The gas pipes were under examination, there were therefore no Photographic Records on this day.

Göttingen Mean Solar Time.	Western Declination.
Feb. 7	
h m	° ′ ″
12. 41	21. 30. 45
12. 47	30. 5
13. 27	32. 0
13. 50	38. 0
14. 39	34. 0
14. 43	34. 35
15. 0	35. 0
15. 24	38. 30
15. 11	31. 0
15. 43	34. 30
17. 42	34. 20
18. 8	36. 30
19. 48	36. 50
20. 7	36. 0
22. 14	36. 20
22. 23	37. 55
	***
22. 42	37. 35
23. 2	37. 20
23. 22	38. 35
23. 56	39. 30
23. 59	39. 55
Feb. 8	
0. 0	21. 39. 55
0. 5	40. 10
0. 26	39. 10
0. 40	40. 5
2. 30	39. 45
2. 45	41. 55
2. 58	40. 40
	***
3. 52	40. 20
4. 27	38. 30
	***
6. 8	38. 45
6. 42	35. 50
6. 52	35. 50
7. 2	33. 40
7. 19	33. 20
7. 29	36. 20
7. 45	33. 35
8. 0	36. 50
	***
8. 41	36. 5
8. 56	38. 0
9. 30	35. 30
9. 37	34. 25
10. 10	34. 30
10. 33	22. 0
10. 48	27. 0
11. 18	31. 30
11. 39	31. 30
11. 56	34. 5

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 7	
h m	
12. 35	·1102
12. 39	·1106
12. 55	·1091
13. 10	·1098
14. 5	·1106
14. 12	·1098
14. 17	·1117
14. 26	·1113
14. 35	·1114
14. 46	·1121
15. 22	·1104
15. 32	·1103
16. 0	·1114
16. 10	·1109
16. 20	·1100
16. 45	·1101
17. 8	·1108
	***
18. 50	·1114
19. 13	·1111
19. 32	·1114
	***
23. 4	·1114
23. 59	·1106
Feb. 8	
0. 0	·1114
0. 22	·1110
0. 34	·1114
0. 50	·1112
0. 58	·1116
1. 23	·1114
1. 27	·1112
2. 10	·1112
3. 27	1106
4. 7	·1116
4. 15	·1112
5. 10	·1113
6. 6	·1116
6. 24	·1119
6. 45	·1118
6. 54	·1132
	***
7. 14	·1126
7. 34	·1112
7. 45	·1118
8. 9	·1113
8. 25	·1117
8. 38	·1122
9. 45	·1111
10. 8	·1101
10. 30	·1126
10. 44	·1121
10. 52	·1123
11. 24	·1111
11. 50	·1114

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Feb. 8	
c. 0	·21056
2. 39	·01962
7. 53;	·01829
15. 45	·01804
18. 30	·01712
20. 0	·01633
23. 59	·01520

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Feb. 8		
9. 20	44 ·7	45 ·4
12. 40	44 ·5	46 ·0
13. 40	44 ·7	46 ·0
14. 40	45 ·0	45 ·7
15. 40	45 ·3	45 ·9
16. 40	45 ·7	46 ·0
17. 40	46 ·2	46 ·5
18. 40	47 ·5	47 ·5
19. 40	47 ·5	47 ·5
20. 40	47 ·6	47 ·7
21. 40	47 ·2	47 ·4
22. 40	47 ·3	47 ·6
23. 40	47 ·8	47 ·8

Göttingen Mean Solar Time.	Western Declination.
Feb. 8	
h m	° ′ ″
12. 3	21. 33. 45
12. 18	35. 30
12. 31	33. 5
12. 57	34. 0
13. 11	33. 0
13. 28	34. 50
13. 44	34. 0
13. 59	36. 0
14. 39	33. 10
14. 57	36. 0
15. 16	35. 30
15. 29	34. 0
15. 41	35. 0
15. 54	38. 25
16. 24	36. 20
16. 41	36. 30
17. 11	37. 25
17. 26	34. 25
17. 42	37. 0
18. 15	36. 0
	***
19. 12	37. 20
	***
19. 58	36. 30
	***
20. 30	36. 40
20. 42	35. 30
	***
21. 7	37. 10
	***
22. 18	37. 50
	***
22. 36	38. 50
22. 53	38. 20
	***
23. 39	38. 30
23. 59	41. 20
Feb. 9	
0. 0	21. 41. 20
0. 23	40. 0
1. 0	39. 30
1. 32	41. 35
1. 57	41. 0
2. 46	41. 40
3. 28	39. 35
4. 25	40. 20
5. 9	38. 0
5. 40	37. 10
5. 57	37. 30
6. 52	36. 5
	***
8. 37	34. 35
9. 18	35. 20
	***
11. 6	34. 20
11. 15	33. 0
11. 45	34. 0
12. 0	33. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 8	
h m	
12. 2	·1112
12. 30	·1121
12. 58	·1114
13. 25	·1118
13. 40	·1111
	***
13. 57	·1113
14. 5	·1111
14. 42	·1100
15. 8	·1107
	***
15. 36	·1102
	***
16. 43	·1111
	***
18. 10	·1101
	***
18. 26	·1112
	***
19. 37	·1110
	***
19. 41	·1104
	***
19. 46	·1111
	***
20. 15	·1113
	***
20. 53	·1104
	***
21. 0	·1111
	***
21. 10	·1108
	***
22. 16	·1101
	***
23. 59	·1102
Feb. 9	
1. 10	·1101
1. 40	·1102
1. 48	·1104
2. 30	·1094
3. 52	·1104
	***
4. 5	·1100
5. 4	·1102
5. 14	·1106
5. 22	·1103
5. 35	·1105
6. 6	·1100
6. 48	·1104
7. 10	·1101
8. 22	·1104
9. 4	·1102
9. 40	·1102
10. 2	·1101
10. 9	·1104
10. 34	·1101

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Feb. 9	
1. 32	·01432
3. 39	·01143
4. 52	·01174
4. 55	·01267
8. 18	·01442
10. 37	·01476
14. 30	·01436
17. 52	·01563
21. 0	·01564
23. 53	·01670

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Feb. 9		
0. 40	48 ·7	48 ·5
1. 40	49 ·0	49 ·5
2. 40	51 ·0	50 ·2
3. 40	51 ·8	51 ·5
4. 40	52 ·8	51 ·4
5. 40	53 ·2	51 ·7
6. 40	53 ·2	51 ·4
7. 40	53 ·4	51 ·4
8. 40	52 ·7	51 ·2
9. 40	52 ·5	52 ·0
10. 40	52 ·6	51 ·8
11. 40	52 ·3	51 ·5
21. 40	48 ·9	48 ·9

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 9		Feb. 9						
h m	° ′ ″	h m		h m		h m	c	°
12. 13	21. 34. 15	10. 46	·1104					
13. 0	34. 5	11. 52	·1103					
13. 12	35. 25	12. 24	·1107					
13. 35	35. 20	13. 5	·1102					
13. 47	37. 30	13. 45	·1115					
14. 13	35. 0	13. 55	·1111					
14. 28	37. 0	14. 22	·1117					
14. 44	36. 5	14. 38	·1113					
16. 12	36. 0	14. 54	·1115					
16. 30	36. 30	15. 10	·1111					
16. 43	35. 25	19. 38	·1124					
17. 2	36. 30	20. 18	·1121					
17. 15	35. 30	21. 9	·1118					
17. 22	36. 0	21. 15	·1122					
	***	22. 0	·1114					
21. 0	35. 30	23. 20	·1108					
	***	23. 59	·1109					
22. 4	34. 30							
	***							
22. 49	35. 0							
	***							
23. 46	37. 10							
23. 59	37. 30							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 0	21. 37. 30	0. 0	·1109	0. 3	·01680	1. 40	51 ·1	50 ·4
	***	0. 10	·1106	2. 19	·01594	3. 40	52 ·5	51 ·7
0. 34	39. 45	0. 31	·1113	4. 52	·01396	9. 40	53 ·0	54 ·0
0. 43	38. 40	2. 44	·1086	6. 6	·01240	21. 40	45 ·7	46 ·2
1. 0	42. 5	3. 40	·1087	7. 10	·01200			
	***	4. 6	·1097	7. 24	·01237			
1. 37	42. 35	4. 28	·1094	15. 22	·01630			
1. 42	41. 40	4. 37	·1081	18. 53	·02017			
1. 53	39. 0	5. 12	·1104	19. 50	·01977			
	***	6. 42	·1102	23. 46	·01980			
2. 45	47. 0	8. 27	·1094					
2. 58	46. 35	8. 46	·1097					
3. 7	44. 30	15. 10	·1116					
3. 19	44. 40	15. 46	·1114					
3. 52	40. 50	19. 42	·1123					
4. 6	41. 40	21. 24	·1121					
4. 15	41. 20	23. 22	·1098					
4. 29	41. 55	23. 59	·1096					
4. 43	34. 20							
5. 13	36. 20							
5. 49	36. 25							
6. 42	35. 35							
7. 12	36. 30							
8. 11	35. 20							
8. 41	32. 5							
8. 58	33. 10							
9. 22	29. 40							
9. 57	33. 50							
11. 22	34. 25							
	***							
13. 31	37. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 10								
h m	° ′ ″	h m		h m		h m	c	°
14. 15	21. 36. 45							
14. 47	38. 30							
	***							
16. 45	37. 0							
17. 30	37. 30							
	***							
17. 45	36. 30							
	***							
17. 57	37. 0							
	***							
18. 11	36. 30							
	***							
18. 27	37. 10							
	***							
19. 48	36. 5							
20. 15	36. 15							
22. 3	32. 50							
	***							
22. 45	35. 0							
	***							
23. 27	35. 40							
	***							
23. 59	37. 30							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 0	21. 37. 30	0. 0	·1096	0. 50	·01948	1. 40	49 ·0	49 ·0
	***		***	1. 21	·01936	3. 40	52 ·2	52 ·7
1. 9	39. 35	1. 48	·1098	2. 47	·01780	9. 40	53 ·6	52 ·7
	***		***	6. 6	·01127	21. 40	46 ·0	47 ·0
3. 16	39. 20	5. 34	·1116	6. 40	·01143			
5. 15	36. 10	9. 52	·1113	6. 46	·01213			
11. 0	35. 30	10. 8	·1116	7. 50	·01329			
11. 15	34. 40		***	14. 0	·01388			
12. 2	35. 0	11. 9	·1115	18. 16	·01623			
12. 17	33. 50	12. 20	·1118	22. 9	·01980			
12. 44	34. 30	12. 46	·1116	22. 19	·01940			
12. 57	33. 55	13. 0	·1123	23. 59	·01965			
13. 1	34. 0	14. 18	·1118					
13. 22	32. 45	15. 10	·1117					
14. 23	33. 40	15. 22	·1113					
14. 39	34. 30	15. 42	·1118					
14. 52	34. 10	16. 5	·1117					
15. 10	36. 0	18. 25	·1127					
15. 22	35. 10	18. 40	·1126					
15. 42	36. 50	20. 8	·1129					
	***	20. 50	·1128					
20. 10	36. 10	22. 10	·1120					
21. 39	34. 10		***					
	***	23. 0	·1104					
22. 31	34. 50	23. 59	·1106					
	***							
22. 52	36. 30							
	***							
23. 10	36. 50							
	***							
23. 59	39. 30							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 30	0. 16	·1105	0. 10	·01966	1. 40	47 ·8	47 ·6
	***	0. 40	·1102	1. 8	·01997	3. 40	50 ·0	50 ·0
1. 28	41. 40		***	2. 21	·01995	10. 15	50 ·8	51 ·6
	***	5. 5	·1119	3. 23	·01908	21. 40	42 ·2	43 ·0
2. 38	41. 0	5. 39	·1116	7. 4	{ ·01460			
	***	6. 26	·1112		{ ·01522			
3. 52	38. 30	9. 27	·1113	8. 7	·01532			
4. 29	36. 40	9. 39	·1119	9. 30:	·01576			
5. 44	34. 15	10. 19	·1112	15. 22	{ ·02015			
6. 18	34. 40	10. 44	·1124		{ ·01977			
6. 45	34. 0	11. 5	·1116	23. 20	·01920			
7. 18	34. 35	19. 20	·1133					
	***	21. 22	·1131					
9. 30	34. 0	23. 59	·1115					
9. 42	32. 25							
10. 10	32. 20							
10. 14	29. 25							
10. 22	29. 15							
10. 52	33. 40							
11. 10	33. 20							
	***							
15. 36	36. 10							
	***							
18. 28	35. 50							
	***							
20. 7	35. 30							
	***							
22. 30	33. 20							
	***							
22. 52	34. 30							
	***							
23. 59	38. 0							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	21. 38. 0	0. 0	·1115	0. 0	·01933	1. 40	45 ·0	45 ·3
	***	1. 14	·1111	1. 4	·01930	3. 40	48 ·2	48 ·2
1. 38	41. 55	3. 30	·1117	2. 8	·01872	9. 40	51 ·3	50 ·7
1. 46	40. 20	4. 40	·1108	3. 21	·01749	21. 40	43 ·4	44 ·2
	***	7. 2	·1114	7. 15	·01093			
3. 0	38. 45	7. 15	·1108	8. 10	·00992			
	***	7. 50	·1114	9. 48	·00949			
3. 42	40. 0	13. 17	·1117	14. 15	·01036			
5. 9	36. 15	20. 45	·1135	16. 0	·01140			
5. 41	37. 10		***	21. 21	·01643			
7. 2	36. 0	23. 59	·1118	23. 23	·01766			
7. 40	31. 30							
8. 16	35. 0							
15. 9	38. 15							
15. 24	37. 30							
	***							
17. 27	37. 30							
20. 22	36. 35							
22. 15	34. 35							
23. 41	36. 40							
23. 59	37. 50							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 0	21. 37. 50	0. 0	·1118	0. 0	·01790	1. 40	45 ·3	46 ·0
	***		***	2. 20	·01756	3. 40	48 ·2	48 ·2

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
h m	° ′ ″	h m		h m		h m	°	°
1. 20	21. 39. 50	2. 2	·1111	3. 53	·01630	9. 40	49 ·5	50 ·0
1. 29	41. 30		***	5. 39	·01294	22. 30	42 ·7	44 ·2
1. 40	40. 0	4. 15	·1129	7. 10	·01015			
1. 52	40. 30		***	8. 25	·00983			
2. 15	39. 30	6. 3	·1117	9. 26	·00975			
2. 46	40. 30	8. 36	·1123	9. 43	·01040			
3. 39	38. 20		***	14. 0	·01325			
3. 59	38. 20	8. 55	·1117	18. 25	·01735			
4. 57	37. 0	9. 23	·1122	21. 49	·01917			
5. 39	37. 30	10. 18	·1119	23. 6	·01930			
6. 16	36. 30		***					
6. 32	36. 35	17. 30	·1135					
13. 45	37. 30		***					
14. 12	37. 0	18. 13	·1134					
15. 40	37. 30		***					
17. 41	36. 40	19. 26	·1139					
18. 0	38. 30		***					
	***	20. 35	·1135					
19. 5	36. 20		***					
	***	22. 13	·1125					
20. 36	36. 20		***					
21. 5	35. 15	23. 59	·1117					
	***							
21. 53	35. 25							
	***							
23. 40	38. 30							
	***							
23. 59	37. 40							
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 0	21. 37. 40	0. 0	·1117	0. 0	·01933	11. 42	44 ·7	45 ·2
	***		***	3. 0	·01922	12. 40	44 ·0	45 ·3
1. 3	39. 30	3. 34	·1129	4. 37	·01857	13. 40	44 ·0	45 ·3
1. 45	41. 20	7. 42	·1127	7. 19	·01713	14. 40	44 ·3	45 ·5
3. 26	39. 30	7. 57	·1125	10. 0	·01630	15. 40	44 ·6	45 ·4
5. 9	37. 30	8. 7	·1128	12. 49	·01678	16. 40	44 ·7	45 ·4
6. 15	37. 25	8. 52	·1122	15. 30	·01760	17. 40	45 ·0	45 ·5
9. 26	35. 40	10. 42	·1131	20. 10	·01810	18. 40	45 ·1	45 ·5
10. 15	36. 30	11. 7	·1128	23. 59	·01736	19. 40	45 ·3	45 ·5
10. 41	34. 30	11. 37	·1130			20. 40	45 ·4	45 ·4
11. 9	36. 30	13. 22	·1125			21. 40	45 ·3	45 ·1
14. 10	36. 20	13. 36	·1127			22. 40	45 ·8	45 ·2
	***	14. 8	·1125			23. 40	46 ·8	46 ·4
14. 51	37. 55		***					
15. 2	37. 0	15. 9	·1129					
15. 15	37. 30	15. 24	·1126					
15. 32	36. 20	18. 22	·1132					
15. 52	36. 30		***					
16. 20	36. 0	18. 40	·1128					
	(†)		***					
17. 40	38. 0	20. 8	·1128					
	***		***					
18. 24	35. 25	21. 15	·1130					
18. 36	35. 45		***					
18. 52	34. 40	21. 29	·1136					
20. 1	35. 50		***					
20. 15	34. 0	22. 42	·1122					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 15		Feb. 15				Feb. 16		
h m	° ′ ″	h m		h m		h m	°	°
21. 11	21. 34. 30	23. 10	·1123			20. 46	21. 35. 0	
21. 27	33. 40							
21. 43	35. 40					22. 0	38. 30	
22. 16	34. 30					22. 35	38. 45	
23. 12	36. 30					22. 53	38. 0	
						23. 59	40. 0	
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
	(†)		(†)		(†)	0. 40	48 ·1	47 ·8
1. 32	21. 44. 30	1. 36	·1098	1. 45	·01583	1. 40	49 ·7	49 ·3
1. 46	44. 50			2. 51	·01420	2. 40	51 ·1	51 ·3
2. 0	42. 20	2. 7	·1089	4. 6	·01143	3. 40	53 ·5	53 ·5
2. 6	43. 20				·01181	4. 40	55 ·0	55 ·0
2. 15	41. 50	2. 58	·1101	4. 52	·01195	5. 40	56 ·0	56 ·2
3. 9	42. 35				·01702	6. 40	57 ·3	56 ·2
4. 17	38. 40	3. 40	·1101	6. 0	·01500	7. 40	57 ·5	56 ·4
4. 43	38. 50			6. 17	·01494	8. 40	57 ·7	56 ·3
6. 5	36. 20	4. 27	·1106	6. 45	·01520	9. 40	57 ·7	56 ·0
7. 12	35. 30			7. 0	·01506	10. 40	57 ·3	56 ·0
7. 45	36. 30	6. 20	·1106	7. 8	·01537	11. 40	57 ·0	56 ·0
9. 12	34. 40			10. 3	·01702	21. 40	49 ·2	49 ·8
9. 20	35. 30	7. 59	·1098	10. 22	·01744			
10. 32	33. 50			14. 54	·01977			
11. 13	23. 20	8. 24	·1102	16. 30	·02042			
11. 49	29. 15			19. 11	·02078			
12. 2	28. 20	8. 52	·1098	21. 50	·02060			
13. 10	33. 30				·01944			
		10. 34	·1098	23. 21	·02028			
14. 5	35. 0							
		11. 24	·1119					
14. 43	34. 0							
14. 57	36. 0	11. 35	·1108					
15. 15	36. 30	11. 46	·1111					
15. 31	34. 50							
16. 0	36. 40	13. 0	·1095					
16. 13	36. 20							
		20. 56	·1127					
16. 45	38. 30							
		23. 12	·1117					
17. 12	35. 30							
18. 10	34. 45							
18. 18	36. 0							
18. 32	35. 30							
18. 45	32. 40							
19. 2	36. 0							
19. 45	35. 10							
19. 52	36. 30							
20. 11	35. 10							
20. 26	36. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 16								
h m	′ ″	h m		h m		h m	°	°
20. 46	21. 35. 0							
22. 0	38. 30							
22. 35	38. 45							
22. 53	38. 0							
23. 59	40. 0							
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 0	21. 40. 0	0. 0	·1107	0. 0	·02040	1. 40	51 ·3	51 ·8
0. 10	39. 15			1. 24	·02037	3. 40	53 ·8	53 ·8
		3. 37	·1045	2. 30	·01962	9. 40	56 ·5	56 ·2
1. 10	40. 0			3. 51	·01840	21. 40	50 ·2	51 ·0
1. 21	41. 30	3. 46	·1103	6. 20	·01454			
				7. 50	·01220			
1. 48	40. 30	5. 26	·1106	8. 54	·01141			
2. 15	42. 0			9. 53	·01128			
		6. 0	·1097	10. 3	·01177			
2. 42	39. 45			12. 0	·01190			
3. 0	40. 30	6. 25	·1114	14. 8	·01317			
3. 31	37. 35			20. 8	·01778			
		6. 43	·1116	23. 49	·01963			
3. 55	38. 40							
		7. 9	·1107					
4. 47	37. 20							
5. 20	37. 30	7. 25	·1110					
5. 44	35. 30							
5. 52	35. 0	9. 42	·1097					
6. 22	26. 10							
6. 51	34. 25	10. 5	·1103					
7. 11	35. 0							
7. 38	36. 30	10. 45	·1107					
8. 40	35. 30							
8. 54	34. 20	11. 4	·1103					
9. 19	34. 25							
9. 42	31. 0	11. 44	·1117					
9. 48	31. 10							
10. 13	35. 30	11. 58	·1112					
10. 40	34. 20							
10. 54	34. 30	13. 36	·1106					
11. 7	33. 45							
11. 20	34. 50	20. 39	·1125					
11. 39	38. 0							
12. 7	34. 40	21. 35	·1118					
			(†)					
12. 32	36. 0							
13. 40	35. 30							
14. 22	36. 30							
14. 40	37. 40							
15. 2	36. 30							
15. 22	37. 0							
15. 48	36. 20							
19. 25	36. 40							
20. 25	35. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

February 15. The times, both for Declination and Horizontal Force, are under some uncertainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 17	° ′ ″	h m		h m		h m	°	°
h m								
21. 0	21. 34. 35							
21. 10	35. 10							
21. 29	34. 30 (†)							
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 0	21. 40. 20	0. 0	·1109	0. 0	·01977	1. 40	52 ·2	52 ·2
0. 34	41. 30		***	2. 15	·01905	3. 40	54 ·8	54 ·4
	***	1. 42	·1108	3. 33	·01764	9. 40	55 ·7	55 ·3
1. 32	40. 0		***	7. 0	·01330	21. 40	50 ·5	52 ·0
1. 45	40. 30	6. 8	·1101	8. 21	·01255			
2. 17	39. 20		***	10. 50	·01242			
2. 32	39. 50	6. 35	·1106	14. 30	·01337			
2. 42	38. 35		***	21. 49	·01882			
3. 1	39. 0	7. 55	·1106	23. 59	·01996			
	***		***					
5. 42	36. 0	8. 40	·1103					
6. 36	37. 30		***					
7. 15	36. 0	10. 48	·1107					
7. 43	36. 15		***					
8. 4	35. 30	12. 36	·1106					
8. 21	36. 35		***					
9. 10	35. 0	12. 52	·1121					
9. 18	36. 0		***					
10. 36	36. 30	13. 31	·1116					
12. 35	34. 35		***					
12. 48	37. 30	14. 17	·1121					
13. 10	34. 30		***					
13. 44	37. 0	14. 42	·1108					
14. 43	32. 40		***					
14. 55	33. 55	15. 0	·1111					
15. 13	31. 50		***					
15. 20	32. 20	15. 58	·1104					
15. 41	31. 30		***					
15. 58	34. 10	17. 37	·1112					
16. 10	33. 35		***					
16. 21	36. 10	20. 4	·1122					
16. 45	33. 5		***					
17. 28	36. 50	21. 0	·1118					
17. 43	34. 45		***					
18. 5	36. 10	23. 59	·1097					
18. 20	35. 30							
18. 30	36. 15							
19. 4	36. 15							
	***							
21. 20	33. 30							
	***							
23. 59	39. 0							
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 0	21. 39. 0	0. 0	·1097	1. 40	·01960	1. 40	52 ·0	52 ·0
	***		***	2. 5	·01940	3. 40	53 ·2	53 ·3
1. 4	42. 0	0. 21	·1101	6. 10	·01746	9. 40	52 ·5	52 ·5
1. 14	40. 50		***	8. 53	·01682	21. 40	47 ·3	48 ·4
1. 58	43. 30	0. 40	·1094	11. 6	·01606			
2. 5	42. 20		***	16. 54	{·02058			
2. 40	42. 50	1. 2	·1097		{·02000			
3. 30	38. 50		***	20. 43	·02020			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 19	° ′ ″	Feb. 19		Feb. 19		Feb. 19		
h m		h m		h m		h m	°	°
5. 16	21. 37. 30	1. 13	·1089	20. 48	·01976			
5. 44	36. 40		***	23. 37	·01936			
6. 14	30. 20	4. 30	·1103					
6. 40	29. 10		***					
6. 58	32. 20	4. 54	·1101					
7. 15	29. 20		***					
7. 40	30. 20	5. 39	·1104					
7. 51	32. 40	6. 9	·1087					
8. 6	32. 0	6. 43	·1103					
8. 24	33. 35	7. 0	·1090					
8. 45	34. 40		***					
9. 0	34. 0	8. 7	·1106					
9. 10	35. 10		***					
10. 10	37. 0	8. 14	·1104					
10. 46	36. 10		***					
11. 0	36. 30	8. 39	·1096					
11. 17	36. 0		***					
11. 32	36. 50	9. 4	·1102					
12. 2	35. 20		***					
12. 19	35. 30	11. 52	·1103					
12. 40	38. 55		***					
13. 7	37. 0	12. 9	·1108					
13. 28	38. 0		***					
13. 47	37. 20	12. 32	·1111					
14. 6	36. 30		***					
14. 57	37. 0	13. 31	·1126					
15. 14	36. 20		***					
15. 28	37. 30	14. 12	·1116					
15. 32	36. 30		***					
15. 45	37. 0	15. 17	·1111					
16. 6	35. 30		***					
16. 25	37. 30	18. 27	·1115					
16. 32	37. 10		***					
16. 56	38. 15	19. 30	·1122					
17. 18	37. 10		***					
18. 4	38. 0	20. 24	·1120					
18. 15	36. 55		***					
18. 40	37. 50	20. 45	·1124					
19. 17	36. 5		***					
19. 42	37. 0	21. 36	·1111					
	***		***					
20. 9	36. 0	23. 59	·1102					
20. 20	37. 0							
21. 7	36. 30							
	***							
22. 40	38. 30							
22. 45	38. 10							
23. 5	40. 20							
23. 47	39. 25							
23. 59	40. 15							
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 0	21. 40. 15	0. 0	·1102	0. 0	·01910	1. 40	49 ·8	50 ·2
0. 12	40. 30		***	1. 7	·01882	3. 40	52 ·2	52 ·3
	***	2. 10	·1108	2. 56	·01779	9. 40	54 ·0	54 ·0
0. 47	39. 30		***	4. 30	·01500	21. 40	46 ·3	47 ·2
	***	2. 39	·1104	6. 35	·01257			
1. 32	41. 0		***	8. 7	·01093			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Readings of Thermometers. Of V. F. Magnet.
Feb. 20	° ′ ″	Feb. 20		Feb. 20		h m	°	°
h m		h m		h m				
1. 52	21. 40. 0	4. 27	·1115	9. 36	·01044			
2. 16	40. 25		***		{·01980			
2. 41	39. 10	4. 52	·1105	21. 7	{·01926			
2. 54	39. 30		***		{·01978			
4. 9	37. 10	6. 9	·1116	23. 10	{·01897			
4. 28	37. 30		***	23. 51	·01867			
4. 57	36. 20	12. 54	·1114					
5. 28	35. 25		***					
6. 10	36. 30	15. 52	·1118					
8. 38	36. 0		***					
11. 50	36. 50	19. 8	·1129					
12. 9	36. 0		***					
14. 0	37. 0	23. 28	·1101					
14. 35	37. 50		***					
15. 10	37. 15	23. 59	·1103					
15. 54	39. 0							
16. 32	37. 0							
16. 44	37. 40							
16. 58	37. 0							
17. 1	37. 20							
17. 16	36. 45							
18. 25	37. 5							
18. 44	36. 30							
19. 15	36. 30							
20. 18	36. 0							
21. 7	34. 30							
	***							
22. 47	36. 30							
	***							
23. 35	39. 0							
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 7	21. 39. 40	0. 7	·1101	0. 6	·01860	1. 40	48 ·8	48 ·7
0. 32	38. 40	3. 0	·1113	2. 49	·01624	3. 40	51 ·2	51 ·6
3. 10	38. 50	5. 45	·1108	4. 24	·01441	9. 40	52 ·8	53 ·0
4. 52	36. 35	11. 22	·1111	6. 20	·01160	22. 10	47 ·8	48 ·3
6. 33	35. 30	11. 40	·1119	8. 17	·00982			
8. 54	35. 25	11. 57	·1112	14. 35	·01068			
11. 25	36. 25	14. 30	·1116	17. 0	·01175			
11. 43	32. 45	15. 32	·1112	21. 30	·01520			
12. 18	36. 30	19. 50	·1122	22. 31	·01574			
13. 12	35. 50	23. 59	·1110		(†)			
13. 39	36. 50							
15. 58	37. 30							
17. 0	36. 30							
17. 42	37. 0							
19. 44	36. 0							
20. 52	36. 10							
21. 2	35. 15							
21. 41	34. 35							
22. 15	36. 0							
22. 30	36. 10							
22. 57	37. 10							
23. 59	41. 30							
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 0	21. 41. 30	0. 0	·1110	0. 0	·01620	8. 0	52 ·8	53 ·0
0. 30	42. 0	0. 50	·1102	0. 29	{·01608	12. 40	50 ·8	51 ·3
0. 52	41. 20	4. 43	·1112		{·01540	13. 40	50 ·6	51 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 22	° ′ ″	Feb. 22		Feb. 22		Feb. 22		
h m		h m		h m		h m		
1. 5	21. 42. 20	6. 33	·1103	1. 56	·01480	14. 40	50 ·5	50 ·8
2. 53	41. 20	7. 35	·1110	3. 24	·01367	15. 40	50 ·5	50 ·8
5. 21	36. 0	9. 15	·1108	6. 22	{·01378	16. 40	50 ·5	50 ·7
6. 17	36. 40	12. 5	·1112		{·01480	17. 40	50 ·8	50 ·8
6. 35	36. 10	15. 26	·1108	10. 49	·01020	18. 40	50 ·8	50 ·8
12. 21	36. 45	19. 18	·1115	13. 24	·01136	19. 40	50 ·9	50 ·8
13. 24	36. 0	20. 42	·1112	16. 50	·01288	20. 40	51 ·0	50 ·9
13. 44	36. 30	23. 59	·1093	21. 50	·01325	21. 40	51 ·0	51 ·2
14. 24	35. 50			23. 59	·01337	22. 40	51 ·1	51 ·2
15. 21	37. 5					23. 40	51 ·9	51 ·5
15. 34	36. 30							
	***							
18. 20	36. 10							
20. 6	34. 35							
20. 30	33. 40							
21. 32	32. 50							
22. 27	33. 30							
23. 59	39. 35							
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
0. 0	21. 39. 35	0. 0	·1093	0. 52	·01292	0. 40	52 ·2	52 ·0
0. 25	39. 30	1. 0	·1097	2. 38	{·01140	1. 40	53 ·0	53 ·0
0. 57	41. 0	1. 43	·1098		{·01298	2. 40	54 ·8	54 ·0
3. 0	39. 20	3. 52	·1103	4. 45	·01224	3. 40	56 ·0	55 ·5
3. 36	39. 15	4. 47	·1101	6. 51	·01217	4. 40	57 ·0	56 ·4
5. 10	36. 25	5. 40	·1102	9. 49	·01257	5. 40	58 ·0	57 ·0
8. 1	33. 30	7. 2	·1099	14. 52	·01734	6. 40	58 ·2	57 ·5
9. 40	34. 40	7. 52	·1106	17. 26	·02036	7. 40	58 ·5	57 ·5
11. 12	34. 40		***	21. 48	·02013	8. 40	58 ·0	57 ·1
15. 24	36. 35	12. 20	·1113	23. 54	·01985	9. 40	58 ·0	57 ·0
15. 42	36. 15	13. 30	·1111			10. 40	57 ·5	57 ·0
16. 13	37. 30	19. 21	·1132			11. 40	57 ·2	56 ·8
16. 27	37. 10	20. 52	·1126			21. 40	48 ·2	49 ·2
16. 35	37. 30	22. 12	·1114					
16. 59	36. 0	23. 59	·1113					
	***							
19. 35	35. 0							
	***							
20. 54	34. 0							
21. 54	33. 50							
23. 34	38. 35							
23. 59	39. 15							
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 0	21. 39. 15	0. 0	·1113	0. 0	·01996	1. 40	49 ·5	50 ·0
1. 30	41. 25		***	2. 6	·01920	3. 40	51 ·8	52 ·0
2. 1	41. 0	3. 15	·1117	4. 23	·01665	9. 40	54 ·1	54 ·0
2. 24	41. 20		***	7. 23	·01262	21. 40	43 ·8	45 ·0
5. 0	36. 30	10. 25	·1112	8. 30	·01164			
7. 6	35. 55		***	10. 19	·01127			
9. 49	33. 35	10. 38	·1116	13. 49	·01370			
10. 13	33. 40	10. 57	·1113	18. 23	·01967			
10. 40	35. 0	11. 10	·1118	21. 36	{·01925			
10. 54	33. 35	11. 22	·1121		{·01840			
11. 29	33. 30	12. 23	·1113	22. 0	·01857			
11. 52	31. 15	12. 37	·1116	23. 51	·01846			
	***		***					
13. 26	36. 15	13. 13	·1114					
	***		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 24		Feb. 24						
h m	° ′ ″	h m		h m		h m	°	°
13. 50	21. 36. 10	19. 6	·1131					
	***	21. 54	·1128					
14. 21	37. 30	23. 59	·1122					
14. 52	36. 35							
15. 13	37. 35							
17. 44	37. 45							
	***							
20. 45	36. 20							
22. 15	36. 15							
23. 59	38. 35							
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 0	21. 38. 35	0. 0	·1122	0. 27	·01870	1. 40	45 ·0	45 ·5
			***					
1. 24	40. 20			2. 20	·01834	3. 40	47 ·0	47 ·0
1. 49	39. 30	0. 38	·1124	8. 42	·01413	9. 40	48 ·0	48 ·5
			***					
2. 16	40. 5			11. 15	·01330	21. 40	44 ·0	45 ·2
3. 8	39. 0	4. 6	·1129	15. 0	·01317			
			***					
5. 21	36. 15			17. 11	·01376			
6. 19	35. 25	5. 58	·1126	19. 10	·01470			
			***					
7. 30	36. 30			22. 16	{ ·01676			
8. 15	36. 15	19. 35	·1134		{ ·01600			
			***					
8. 27	35. 20			23. 5	·01628			
9. 2	35. 40	22. 15	·1123	23. 59	·01620			
9. 43	34. 50	23. 56	·1119					
10. 0	36. 0							
17. 25	37. 30							
20. 30	36. 30							
22. 1	36. 30							
23. 59	35. 30							
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
	(†)		(†)	0. 37	·01571	1. 40	46 ·2	47 ·2
1. 24	21. 41. 30	1. 22	·1130	2. 0	·01526	3. 40	49 ·5	50 ·2
			***					
1. 44	41. 30			2. 52	·01460	9. 50	50 ·0	51 ·0
1. 54	41. 0	3. 54	·1118	4. 18	·01217	21. 40	43 ·3	44 ·3
			***					
				5. 34	{ ·00965			
3. 0	40. 10	6. 45	·1126		{ ·00985			
			***					
3. 12	40. 50			8. 40	·00936			
3. 47	38. 50	8. 42	·1114	9. 23	·00954			
	***		***					
				9. 54	·01017			
4. 45	38. 5	8. 52	·1126	11. 50	·01120			
			***					
5. 42	38. 15			12. 28	·01180			
5. 51	39. 30	9. 3	·1124	12. 40	·01180			
	***		***					
				19. 31	·01933			
6. 54	39. 50	9. 24	·1092	20. 6	·01885			
			***					
7. 0	39. 0			23. 48	·01864			
7. 15	39. 45	9. 44	·1106					
			***					
7. 42	39. 50							
8. 13	39. 10	10. 23	·1099					
			***					
8. 31	39. 30							
9. 5	28. 0	11. 0	·1111					
			***					
9. 12	28. 45							
9. 28	26. 0	11. 14	·1108					
			***					
9. 46	29. 55							
10. 8	30. 0	11. 34	·1103					
			***					
10. 47	33. 45							
11. 17	29. 25	11. 58	·1101					
			***					
11. 28	30. 25							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 26		Feb. 26						
h m	° ′ ″	h m		h m		h m	°	°
11. 42	21. 29. 40	12. 13	·1116					
			***					
12. 14	31. 40							
12. 46	20. 30	13. 2	·1097					
			***					
13. 52	30. 0							
14. 10	29. 40	13. 30	·1091					
			***					
14. 26	32. 45							
15. 1	38. 50	13. 50	·1103					
			***					
15. 13	37. 30							
	***	14. 39	·1106					
			***					
16. 22	40. 25							
16. 41	38. 20	15. 6	·1120					
			***					
16. 54	39. 30							
	***	15. 27	·1115					
			***					
19. 10	39. 10							
19. 53	39. 30	18. 42	·1125					
			***					
20. 25	37. 0							
20. 32	37. 30	20. 30	·1125					
			***					
20. 44	37. 0							
20. 48	37. 30	23. 0	·1103					
			***					
21. 10	36. 25							
21. 30	38. 50	23. 43	·1114					
			***					
21. 43	38. 50							
	***	23. 59	·1111					
22. 30	40. 35							
	***							
23. 59	45. 0							
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
0. 0	21. 45. 0	0. 0	·1111	0. 0	·01916	1. 40	46 ·0	46 ·4
			***					
0. 45	42. 40			2. 52	·01695	3. 40	48 ·2	48 ·2
0. 52	44. 20	1. 39	·1129	4. 24	·01532	9. 40	50 ·0	50 ·0
			***					
1. 2	43. 0			6. 37	·01244	21. 40	47 ·0	47 ·6
1. 13	44. 0	2. 25	·1112	8. 0	·01137			
			***					
1. 20	43. 20			10. 10	·01076			
1. 44	46. 30	3. 35	·1122	17. 4	·01212			
			***					
1. 53	46. 0			22. 8	·01334			
2. 10	46. 30	4. 39	·1123	23. 49	·01286			
			***					
2. 21	45. 0							
3. 7	43. 0	5. 8	·1116					
			***					
3. 36	43. 0							
3. 54	41. 30	6. 0	·1123					
			***					
5. 24	39. 30							
6. 29	39. 50	6. 25	·1117					
			***					
6. 44	39. 15							
7. 15	38. 40	7. 2	·1121					
			***					
8. 0	35. 0							
8. 12	35. 25	7. 34	·1107					
			***					
8. 28	32. 30							
9. 4	31. 45	7. 54	·1106					
			***					
9. 29	34. 15							
10. 28	37. 10	8. 13	·1099					
			***					
10. 45	37. 0							
10. 57	37. 30	8. 44	·1096					
	***		***					
17. 54	38. 0	9. 10	·1110					
18. 25	39. 30	9. 52	·1111					
19. 30	38. 30	10. 11	·1117					
20. 15	38. 40	10. 25	·1115					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 27	° ′ ″	Feb. 27		h m		h m	°	°
h m		h m						
21. 29.	21. 37. 15	16. 55	·1128					
22. 46	40. 0	17. 36	·1128					
23. 59	40. 55	19. 43	·1132					
		20. 30	·1124					
			***					
		23. 59	·1112					
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 0	21. 40. 55	0. 0	·1112	0. 8	·01276	1. 40	51 ·1	51 ·3
0. 11	42. 0	0. 44	·1107	2. 32	·01001	3. 40	54 ·5	54 ·5
0. 28	41. 10		***	2. 34	·01032	9. 40	55 ·8	55 ·3
	***	1. 18	·1114	3. 37	·01090	22. 29	46 ·8	48 ·2
1. 11	42. 40		***		·01498			
	***	1. 32	·1108	5. 25	·01220			
2. 38	41. 35		***	6. 34	·01156			
	***	2. 43	·1111	10. 12	·01235			
3. 33	42. 0		***	14. 37	·01536			
	***	3. 40	·1104	18. 13	·01930			
4. 42	41. 20		***	23. 0	·01934			
	***	4. 24	·1112					
6. 28	38. 45		***					
6. 50	39. 20	5. 9	·1106					
7. 8	38. 45	5. 34	·1108					
11. 27	38. 0	8. 0	·1105					
11. 44	37. 30		***					
17. 28	39. 50	21. 18	·1131					
18. 10	39. 0	23. 0	·1128					
19. 36	38. 30	23. 59	·1112					
	***							
21. 5	37. 0							
21. 26	37. 50							
21. 31	37. 30							
	***							
22. 14	39. 10							
22. 39	38. 50							
23. 59	39. 35							
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 0	21. 39. 40	0. 0	·1112	0. 0	·01936	9. 40	52 ·0	52 ·5
0. 11	42. 30		***	2. 5	·01979	12. 40	52 ·2	52 ·5
0. 25	43. 10	0. 8	·1119	3. 44	·01875	13. 40	52 ·2	52 ·8
0. 38	43. 0		***	6. 0	·01656	14. 40	52 ·7	52 ·7
0. 52	44. 50	0. 35	·1111	8. 3	·01420	15. 40	53 ·1	53 ·1
1. 13	43. 0		***	9. 49	·01276	16. 40	53 ·4	53 ·2
1. 26	42. 0	0. 48	·1116	13. 0	·01168	17. 40	53 ·8	53 ·3
2. 14	41. 45		***	15. 50	·01150	18. 40	54 ·0	54 ·0
2. 22	43. 0	1. 2	·1102	21. 21	·00977	19. 40	54 ·7	54 ·1
2. 50	41. 20		***		·01001	20. 40	54 ·7	54 ·1
3. 15	40. 30	2. 19	·1122	23. 59	·00975	21. 40	55 ·0	54 ·5
3. 45	40. 40		***			22. 40	54 ·8	54 ·2
3. 57	40. 20	2. 40	·1116			23. 40	55 ·0	54 ·6
4. 34	40. 45		***					
4. 47	39. 50	2. 56	·1120					
5. 2	40. 20		***					
5. 45	38. 40	3. 2	·1117					
6. 31	38. 0		***					
7. 15	38. 5	3. 39	·1121					
7. 39	37. 0		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 1	° ′ ″	Mar. 1		h m		h m	°	°
h m		h m						
7. 45	21. 37. 0	3. 53	·1116					
8. 11	34. 0		***					
9. 0	37. 20	4. 16	·1120					
11. 20	36. 50		***					
11. 36	36. 0	4. 46	·1110					
11. 46	36. 20		***					
12. 27	32. 50	5. 8	·1111					
	***		***					
14. 29	36. 30	5. 23	·1116					
14. 46	36. 0		***					
15. 15	36. 10	5. 28	·1113					
15. 31	36. 30	7. 32	·1106					
15. 57	35. 40	8. 20	·1112					
16. 11	36. 30	8. 38	·1111					
20. 7	35. 25	8. 52	·1114					
21. 22	34. 30	12. 39	·1111					
22. 31	34. 30	13. 13	·1111					
23. 59	38. 0	13. 26	·1106					
		14. 15	·1104					
		20. 25	·1114					
			***					
		23. 8	·1106					
			***					
		23. 59	·1097					
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 0	21. 38. 0	0. 0	·1097	0. 7	·00980	0. 40	55 ·4	54 ·9
0. 39	41. 0		***	4. 19	·01086	1. 40	55 ·8	55 ·3
0. 45	40. 10	1. 51	·1097	6. 30	·01152	2. 40	56 ·2	55 ·6
2. 11	40. 45	2. 28	·1101	8. 15	·01260	3. 40	57 ·0	56 ·4
3. 0	38. 55	3. 11	·1099	9. 45	·01335	4. 40	57 ·5	56 ·8
5. 20	36. 15	3. 50	·1105	15. 51	·01536	5. 40	57 ·5	56 ·5
6. 27	36. 0	4. 31	·1103	19. 38	·01712	6. 40	57 ·9	57 ·0
6. 59	32. 20	5. 7	·1104	23. 5	·01920	7. 40	58 ·0	57 ·0
7. 40	34. 40	6. 0	·1099	23. 55	·01938	8. 40	57 ·8	56 ·5
13. 28	36. 0	6. 34	·1101			9. 40	57 ·7	56 ·3
14. 36	35. 30		***			10. 40	57 ·7	56 ·3
	***	7. 3	·1102			11. 40	57 ·7	56 ·3
18. 46	35. 30	7. 52	·1107			21. 40	53 ·0	53 ·5
19. 2	34. 35	8. 45	·1106					
19. 13	35. 30	9. 7	·1103					
22. 6	34. 20	11. 43	·1102					
23. 2	34. 50		***					
23. 53	37. 0	20. 18	·1123					
			***					
		23. 59	·1107					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 1	21. 37. 0	0. 0	·1107	0. 0	·01993	1. 40	53 ·9	53 ·7
1. 32	38. 50		***	3. 24	·01912	3. 40	55 ·2	54 ·4
1. 52	41. 0	1. 7	·1114	7. 11	·01727	9. 40	55 ·1	54 ·7
2. 25	38. 30		***	8. 30	·01686	21. 40	48 ·2	49 ·2
	***	1. 33	·1108	11. 5	·01713			
4. 10	37. 30		***	13. 38	·01847			
	***	1. 52	·1117	15. 45	·02055			
5. 48	34. 30		***		·02035			
	***	2. 16	·1104	21. 2	·01943			
9. 58	34. 30		***	22. 39	·01956			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
Mar. 3		Mar. 3		Mar. 3				
h m	° ′ ″	d h		d h m		h m	°	°
10. 30	21. 33. 15	6. 7	·1101	23. 59	·01780			
	***		***					
11. 45	33. 20	6. 36	·1108					
13. 4	34. 40		***					
13. 24	33. 30	8. 45	·1110					
13. 45	33. 40		***					
14. 20	41. 0	10. 17	·1104					
15. 0	37. 40		***					
15. 38	34. 40	13. 30	·1111					
16. 55	35. 10		***					
17. 40	33. 20	14. 24	·1101					
17. 54	34. 30		***					
18. 13	34. 0	14. 52	·1113					
18. 31	34. 35		***					
	***	21. 27	·1116					
20. 33	33. 50		***					
23. 2	36. 50	23. 50	·1105					
23. 18	37. 35							
23. 39	38. 0							
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 0	21. 38. 0	0. 8	·1137	0. 9	·01902	1. 40	50 ·0	51 ·0
0. 39	41. 30		***	2. 47	·01796	3. 40	52 ·0	52 ·0
	***	0. 30	·1141	4. 5	·01693	9. 40	55 ·0	54 ·0
1. 48	40. 0		***	7. 23	·01262	21. 40	45 ·3	47 ·2
2. 22	38. 20	1. 25	·1133	8. 48	·01150			
2. 40	38. 30		***	9. 52	·01101			
2. 51	37. 20	12. 30	·1141	13. 49	·01209			
5. 0	34. 0		***	15. 45	·01380			
5 34	33. 40	15. 25	·1143	20. 40	{·01977			
6. 10	34. 30		***		{·01897			
7. 56	34. 45	19. 34	·1150	23. 22	{·01864			
8. 11	34. 5		***		{·01783			
8. 35	35. 0	21. 28	·1146	23. 59	·01817			
17. 52	35. 5		***					
20. 0	34. 40	23. 35	·1134					
	***							
21. 59	32. 45							
23. 24	36. 50							
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 28	21. 40. 25	0. 22	·1138	0. 40	·01820	1. 40	46 ·8	47 ·0
1. 24	41. 0		***	2. 50	{·01855	3. 40	49 ·0	48 ·7
1. 37	41. 50	2. 44	·1145		{·01823	9. 40	49 ·0	49 ·7
2. 6	40. 10		***	3. 54	·01725	21. 40	48 ·1	48 ·6
2. 28	39. 35	3. 8	·1144	6. 30	·01380			
2. 45	39. 50		***	7. 23	·01309			
3. 44	37. 0	3. 15	·1122	8. 19	·01280			
5. 16	34. 10		***	13. 54	·01523			
6. 30	34. 30	9. 13	·1124	18. 0	·01551			
	***	11. 9	·1128	20. 47	·01536			
8. 45	34. 30		***	23. 59	·01442			
10. 45	35. 25	16. 9	·1126					
	***		***					
14. 48	33. 45	18. 12	·1130					
15. 40	34. 30		***					
20. 22	32. 45	22. 15	·1128					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
Mar. 5		Mar. 5				Mar. 6		
h m	° ′ ″	d h m		m m		h m	°	°
22. 40	21. 37. 30	23. 59	·1124			1. 40	51 ·3	51 ·3
	***					3. 40	54 ·0	53 ·7
23. 58	39. 5					9. 40	55 ·7	55 ·3
Mar. 6		Mar. 6		Mar. 6		21. 40	48 ·7	49 ·2
0. 21	21. 38. 30	0. 0	·1124	0. 7	·01442			
1. 9	41. 0		***	3. 49	{·01077			
3. 15	38. 0	3. 22	·1123		{·01384			
3. 48	36. 10	3. 30	·1121	5. 23	·01140			
4. 11	34. 40	4. 0	·1122	6. 21	·01076			
5. 5	34. 20	6. 7	·1121	6. 23	·01134			
6. 41	35. 30	7. 43	·1118	6. 51	·01120			
6. 53	34. 30	8. 2	·1110	9. 6	·01198			
7. 10	35. 0	8. 22	·1108	10. 19	·01313			
7. 39	35. 25	8. 33	·1118	13. 24	·01450			
8. 7	31. 40	9. 7	·1112	14. 21	·01405			
8. 15	32. 50	11. 0	·1124	15. 6	·01513			
8. 39	30. 0	12. 55	·1117	16. 0	·01576			
8. 58	32. 0	13. 52	·1146	19. 50	·01938			
9. 15	31. 0	14. 48	·1098	23. 59	·01977			
9. 32	28. 50	15. 45	·1112					
10. 1	32. 10	18. 3	·1115					
10. 40	33. 35	18. 22	·1118					
11. 36	35. 0	18. 37	·1116					
11. 52	33. 40	19. 12	·1128					
12. 22	33. 35	21. 25	·1113					
12. 41	32. 15	23. 0	·1116					
13. 5	33. 30							
13. 24	30. 25							
13. 42	37. 10							
14. 22	19. 0							
15. 12	32. 10							
15. 17	31. 40							
15. 28	32. 30							
15. 57	28. 45							
16. 24	30. 30							
16. 40	29. 40							
	***							
17. 0	32. 30							
	***							
18. 39	34. 0							
18. 52	32. 50							
18. 58	34. 20							
	***							
19. 12	33. 0							
	***							
19. 26	34. 35							
	***							
19. 44	34. 20							
19. 51	34. 45							
20. 9	34. 0							
	***							
20. 45	36. 5							
20. 58	37. 30							
	***							
21. 20	35. 5							
22. 1	35. 0							
	***							
23. 32	39. 50							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
h m	° ′ ″	h m		h m		h m	°	°
0. 40	21. 41. 0	0. 37	·1114	0. 42	·01942	1. 40	52 ·4	51 ·9
0. 56	41. 10		***	1. 52	·01896	3. 40	54 ·8	54 ·0
1. 10	42. 30	1. 17	·1113	2. 31	·01664	9. 40	53 ·5	54 ·8
1. 30	40. 50		***	3. 49	·01486	23. 12	45 ·0	45 ·7
1. 47	42. 30	1. 27	·1108	6. 36	·01055			
1. 57	41. 0		***	8. 40	·00981			
2. 32	40. 50	1. 45	·1112		·01037			
	***	2. 36	·1113	10. 1	·01074			
2. 57	38. 35	3. 9	·1117	10. 22	·01130			
3. 13	38. 35	4. 39	·1108	13. 0	·01216			
3. 32	37. 30	5. 0	·1115	14. 23	·01320			
3. 45	37. 35		***	19. 55	·01937			
4. 10	36. 0	5. 27	·1107	20. 30	·01960			
	***		***		·01878			
4. 45	34. 35	6. 54	·1111	23. 30	·01872			
5. 11	35. 30	7. 9	·1105					
5. 33	34. 40	7. 52	·1111					
5. 42	35. 0	8. 10	·1102					
5. 54	35. 5	8. 46	·1109					
6. 10	36. 0	9. 2	·1100					
6. 33	35. 40	9. 48	·1108					
6. 56	36. 30	10. 6	·1104					
7. 10	35. 35	10. 16	·1114					
8. 21	36. 0	11. 0	·1103					
8. 40	33. 10	11. 17	·1110					
8. 52	35. 25	11. 51	·1114					
9. 8	32. 45	12. 58	·1133					
	***	13. 58	·1115					
9. 29	33. 0	14. 24	·1115					
9. 58	35. 0	14. 46	·1108					
10. 12	33. 25	15. 30	·1126					
10. 26	34. 30	16. 3	·1123					
	***	18. 11	·1122					
10. 39	34. 30	18. 36	·1119					
	***	19. 13	·1129					
10. 59	32. 50	20. 6	·1122					
11. 28	33. 40	20. 39	·1112					
12. 0	32. 0	21. 18	·1117					
12. 28	38. 50	22. 40	·1120					
12. 45	34. 50	23. 45	·1116					
13. 10	34. 45							
13. 21	32. 50							
13. 39	32. 5							
13. 47	32. 10							
14. 10	33. 35							
	***							
14. 58	32. 0							
15. 15	29. 20							
15. 45	28. 10							
16. 9	31. 0							
16. 45	30. 35							
16. 59	31. 45							
17. 10	31. 0							
17. 53	30. 30							
18. 15	31. 10							
18. 42	33. 20							
19. 4	32. 30							
19. 29	34. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 7								
h m	° ′ ″	h m		h m		h m	°	°
19. 52	21. 33. 10							
20. 13	34. 35							
20. 30	33. 15							
20. 40	33. 55							
20. 52	32. 55							
21. 27	32. 50							
22. 0	35. 0							
23. 13	37. 5							
23. 28	38. 15							
23. 59	39. 0							
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 0	21. 39. 0	0. 0	·1118	0. 0	·01854	9. 57	44 ·0	45 ·8
	***		***	3. 51	·01915	12. 40	43 ·5	44 ·5
1. 40	41. 0	1. 31	·1131	6. 53	·01896	13. 40	43 ·0	44 ·0
1. 52	40. 0		***	8. 18	·01922	14. 40	42 ·5	44 ·0
1. 59	40. 30	5. 35	·1131		·01875	15. 40	42 ·5	44 ·0
2. 41	39. 10	7. 19	·1122	11. 27	·01870	16. 40	42 ·5	43 ·5
2. 50	39. 30	7. 50	·1128	14. 30	·01852	17. 40	42 ·6	43 ·5
3. 8	37. 50	8. 33	·1130	20. 53	·01791	18. 40	42 ·7	44 ·5
3. 13	38. 20	8. 52	·1139	23. 52	·01654	19. 40	43 ·0	44 ·0
4. 44	35. 0	9. 23	·1134			20. 40	43 ·0	44 ·0
6. 15	35. 40	9. 40	·1136			21. 40	43 ·5	44 ·5
7. 10	32. 20	11. 24	·1126			22. 40	44 ·2	44 ·8
7. 30	34. 25	11. 37	·1138			23. 40	45 ·0	45 ·2
7. 45	34. 30	11. 55	·1130					
8. 3	36. 30	14. 0	·1126					
8. 13	35. 50	16. 0	·1126					
8. 26	36. 30	16. 35	·1134					
8. 46	32. 40	18. 40	·1124					
9. 13	35. 30	19. 19	·1129					
9. 40	32. 40	23. 54	·1123					
10. 11	32. 30							
10. 29	33. 45							
10. 39	37. 0							
11. 0	37. 30							
11. 12	36. 40							
11. 21	37. 30							
11. 41	37. 0							
11. 58	34. 50							
12. 24	32. 40							
12. 40	33. 0							
13. 13	33. 30							
13. 45	35. 30							
14. 50	34. 50							
15. 9	32. 30							
15. 31	32. 10							
16. 22	33. 20							
16. 59	31. 30							
17. 41	31. 5							
18. 57	33. 0							
19. 15	32. 0							
20. 54	32. 5							
	***							
22. 11	34. 15							
22. 41	36. 30							
22. 52	36. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 8								
h m	° ′ ″	h m		h m		h m	°	°
23. 30	21. 38. 20							
23. 54	38. 50							
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 0	21. 39. 0	0. 0	·1118		(†)	0. 40	45 ·8	45 ·8
1. 0	39. 35	1. 0	·1128	1. 7	·01577	1. 40	46 ·8	46 ·7
1. 27	38. 30	3. 55	·1129	2. 21	·01516	2. 40	47 ·7	47 ·6
1. 38	39. 20	4. 7	·1124	6. 30	·01045	3. 40	49 ·0	48 ·6
	***	4. 52	·1124	8. 23	·00972	4. 40	50 ·0	49 ·6
4. 50	34. 0	5. 15	·1130	14. 0	·01220	5. 40	50 ·5	49 ·8
5. 23	34. 30	5. 31	·1124	17. 51	·01558	6. 40	51 ·0	50 ·6
5. 37	33. 10	6. 27	·1126	20. 49	·01835	7. 40	51 ·5	50 ·1
6. 9	34. 30	9. 39	·1115		·01762	8. 40	51 ·1	50 ·4
6. 56	34. 30		***	22. 42	·01780	9. 40	51 ·1	50 ·5
7. 11	35. 5	11. 55	·1127		(†)	10. 40	50 ·2	49 ·6
7. 19	34. 50	12. 49	·1121			11. 40	49 ·7	49 ·0
7. 58	35. 30	14. 7	·1131			21. 40	41 ·7	42 ·7
8. 16	34. 40	14. 37	·1129					
8. 46	35. 15	18. 54	·1146					
8. 58	34. 30		***					
9. 40	34. 0	19. 12	·1141					
9. 48	33. 30		***					
10. 12	33. 25	20. 47	·1147					
10. 22	34. 0		***					
10. 52	33. 0	22. 52	·1143					
11. 0	35. 0		(†)					
11. 8	34. 0							
11. 22	33. 0							
11. 44	32. 30							
12. 24	33. 40							
12. 44	33. 40							
13. 6	34. 45							
14. 14	37. 0							
14. 44	35. 35							
16. 0	35. 50							
17. 4	35. 0							
17. 43	36. 10							
18. 20	35. 25							
18. 44	35. 50							
19. 12	34. 45							
19. 52	35. 35							
20. 36	34. 40							
20. 43	35. 5							
	***							
21. 22	32. 45							
22. 0	33. 50							
	***							
22. 30	36. 0							
	***							
23. 0	36. 0							
	(†)							
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
	(†)		(†)		(†)	1. 40	44 ·4	44 ·5
1. 8	21. 40. 30	1. 0	·1129	1. 9	·01700	3. 40	47 ·2	47 ·0
1. 27	41. 0	2. 42	·1142	3. 0	·01594	9. 40	48 ·5	49 ·0
3. 24	37. 20	3. 9	·1139	4. 11	·01455	21. 40	42 ·2	44 ·2
4. 58	34. 55	9. 38	·1135		(†)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 10		Mar. 10		Mar. 10				
h m	° ′ ″	h m		h m		h m	°	°
6. 11	21. 34. 35	9. 57	·1125	9. 40	·01004*			
7. 40	35. 30	10. 13	·1126	21. 40	·01570*			
8. 29	35. 0	10. 30	·1140					
9. 51	34. 50	10. 40	·1129					
10. 8	33. 30	10. 48	·1138					
10. 27	34. 15	11. 0	·1127					
11. 10	18. 0	11. 27	·1124					
11. 30	24. 10	11. 43	·1132					
11. 45	24. 20	12. 0	·1121					
12. 44	35. 30	12. 8	·1124					
13. 4	34. 20	13. 9	·1132					
13. 46	35. 0	14. 54	·1141					
14. 15	37. 35	15. 52	·1131					
15. 1	32. 50	16. 30	·1134					
15. 19	33. 30	16. 44	·1143					
15. 28	34. 50	16. 48	·1137					
15. 42	34. 40	17. 4	·1135					
16. 1	37. 0	17. 15	·1140					
16. 18	36. 0	19. 30	·1151					
16. 30	35. 55	22. 0	·1131					
16. 45	37. 10		(†)					
17. 6	36. 15							
17. 38	38. 45							
17. 54	37. 30							
18. 11	37. 45							
18. 44	36. 0							
18. 59	36. 30							
19. 12	36. 0							
19. 34	36. 10							
20. 6	34. 25							
20. 57	34. 10							
	***							
21. 42	33. 30							
22. 5	34. 25							
	(†)							
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 10	21. 43. 40	0. 3	·1130	0. 0	·01661	1. 40	44 ·0	45 ·2
0. 42	45. 10	0. 14	·1126	1. 53	·01713	3. 40	46 ·2	47 ·0
	***	1. 8	·1107	2. 45	·01694	9. 40	46 ·5	47 ·5
1. 11	48. 20	1. 29	·1115	5. 15	·01477	21. 40	40 ·5	42 ·3
	***	2. 10	·1120	6. 36	{ ·01382			
1. 17	47. 20	2. 47	·1126		{ ·01456			
	***	3. 8	·1131	7. 35	·01417			
1. 28	48. 40	4. 7	·1134	9. 50	·01454			
	***	4. 33	·1131	15. 0	·01643			
1. 45	47. 30	4. 45	·1139	19. 3	{ ·01868			
	***	4. 52	·1134		{ ·01802			
1. 52	49. 30	5. 4	·1139	22. 36	·01813			
2. 27	48. 25	5. 21	·1119	23. 59	·01843			
2. 49	46. 40	6. 10	·1106					
3. 0	41. 0	6. 27	·1111					
3. 15	42. 0	6. 44	·1121					
	***	7. 0	·1118					
3. 34	42. 0	7. 14	·1124					
3. 43	41. 0	7. 24	·1121					
4. 2	40. 50	7. 37	·1123					
4. 12	40. 15	7. 51	·1138					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 11		Mar. 11						
h m	° ′ ″	h m		h m		h m	°	°
4. 16	21. 40. 30	8. 30	·1129					
			***					
4. 23	40. 0							
4. 40	39. 20	19. 15	·1140					
			***					
4. 51	40. 10							
5. 0	39. 20	19. 44	·1135					
			***					
5. 11	39. 50							
5. 41	37. 35	21. 18	·1132					
6. 4	34. 0	22. 15	·1123					
6. 41	34. 50	23. 59	·1118					
6. 45	34. 30							
7. 0	36. 50							
7. 28	36. 30							
7. 57	28. 50							
8. 14	32. 0							
8. 28	31. 15							
8. 41	34. 30							
8. 57	34. 10							
9. 21	36. 40							
11. 38	37. 30							
13. 0	36. 10							
14. 0	37. 40							
14. 43	37. 10							
14. 58	38. 0							
15. 9	37. 30							
15. 22	38. 0							
15. 54	37. 0							
16. 14	38. 30							
16. 40	37. 40							
	***							
17. 39	37. 25							
18. 11	36. 30							
18. 49	37. 30							
19. 17	37. 0							
19. 28	37. 0							
19. 46	36. 55							
20. 9	37. 0							
20. 27	36. 30							
	***							
21. 58	36. 10							
	***							
23. 59	39. 40							
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 0	21. 39. 40	0. 34	·1121	0. 19	·01835	1. 40	43 ·8	45 ·2
1. 9	42. 20	1. 4	·1116	1. 20	·01818	3. 40	46 ·8	48 ·0
3. 54	38. 0	4. 9	·1124	3. 5	·01676	9. 40	49 ·0	50 ·5
			***					
5. 30	35. 30			6. 0	·01204	21. 40	43 ·0	44 ·3
7. 31	36. 35	9. 12	·1121	7. 7	·01073			
12. 34	37. 0	12. 9	·1128	8. 8	·00997			
13. 26	35. 40	13. 25	·1129	8. 17	·01029			
13. 48	38. 25	13. 48	·1141	9. 45	·01016			
14. 2	35. 30	13. 59	·1142	15. 7	·01175			
14. 17	34. 0	14. 10	·1136	18. 39	·01396			
14. 39	34. 10	14. 39	·1151	22. 35	·01700			
15. 10	31. 40	15. 22	·1122	23. 59	·01725			
15. 28	33. 25	16. 21	·1139					
15. 42	37. 0	16. 43	·1140					
16. 11	36. 50	16. 52	·1133					

Göttingen Mean Solar Time.	Western Declination	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12						
h m	° ′ ″	h m		h m		h m	°	°
16. 24	21. 34. 20	17. 40	·1141					
16. 39	33. 30	18. 11	·1137					
16. 48	34. 40	22. 5	·1127					
17. 0	33. 0	22. 32	·1120					
	***	23. 40	·1125					
17. 16	35. 30	23. 52	·1114					
	***	23. 59	·1119					
17. 52	34. 5							
	***							
18. 21	34. 25							
	***							
18. 44	34. 30							
	***							
19. 17	36. 0							
	***							
20. 11	34. 30							
	***							
21. 34	35. 30							
	***							
23. 50	45. 45							
	***							
23. 59	44. 30							
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
0. 0	21. 44. 30	0. 0	·1119	0. 12	·01720	1. 40	47 ·0	47 ·0
0. 50	42. 40	3. 14	·1118	2. 18	·01632	3. 40	49 ·2	48 ·5
1. 10	44. 5	3. 35	·1106	3. 37	·01469	9. 40	47 ·2	47 ·2
	***	3. 50	·1118	6. 9	·01316	21. 40	44 ·5	46 ·4
1. 30	42. 30	4. 5	·1112	7. 0	·01295			
			***					
2. 11	43. 55			8. 3	·01320			
2. 18	42. 30	4. 35	·1121	8. 23	·01369			
			***					
2. 30	43. 10			13. 5	·01494			
2. 52	42. 15	5. 12	·1110	15. 24	·01612			
			***					
3. 10	41. 20			17. 30	·01574			
3. 15	42. 0	7. 14	·1128	20. 26	·01406			
3. 30	41. 25	7. 27	·1117	22. 21	·01230			
			***					
3. 45	39. 0			23. 59	·01012			
3. 56	39. 30	7. 32	·1121					
4. 28	38. 15	7. 52	·1102					
4. 58	38. 50	8. 16	·1134					
5. 24	37. 0	8. 33	·1130					
6. 45	37. 25	8. 46	·1133					
6. 55	35. 35	9. 15	·1120					
			***					
7. 15	35. 30							
7. 28	36. 30	12. 16	·1143					
			***					
8. 21	8. 45							
8. 27	8. 45	12. 45	·1130					
			***					
9. 14	32. 40							
10. 0	37. 45	19. 20	·1140					
11. 42	37. 30	21. 5	·1128					
12. 5	37. 50	21. 30	·1132					
12. 20	39. 50	23. 5	·1120					
12. 57	37. 50							
13. 12	37. 0							
13. 28	37. 10							
15. 0	37. 15							
15. 18	38. 0							
16. 24	36. 50							
17. 5	37. 15							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13								
h m	° ′ ″	h m		h m		h m	°	°
18. 30	21. 36. 30							
19. 1	36. 45							
19. 31	36. 15							
21. 54	37. 0							
22. 14	37. 30							
22. 46	39. 45							
23. 10	39. 30							
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
0. 25	21. 42. 0	0. 53	·1116	0. 25	·00976	1. 40	49 ·2	51 ·2
1. 30	41. 30	1. 43	·1114	1. 28	·00847	3. 40	52 ·5	53 ·0
2. 30	40. 20	2. 56	·1118	2. 7	·00935	9. 40	54 ·1	54 ·8
	***	4. 24	·1107	5. 10	·01080	23. 18	52 ·0	53 ·0
4. 40	37. 50	5. 37	·1116	10. 30	·01021			
	***	6. 2	·1108	15. 55	·01087			
5. 42	37. 35	6. 16	·1119	19. 0	·01077			
6. 12	33. 55	6. 39	·1111	23. 12	·01405			
6. 29	36. 0	6. 53	·1125					
6. 45	30. 30	7. 10	·1114					
7. 11	35. 20	9. 18	·1116					
	***	9. 39	·1114					
7. 37	36. 30	10. 2	·1133					
7. 56	35. 0	10. 9	·1125					
8. 11	36. 30	10. 18	·1117					
8. 25	36. 55	11. 15	·1119					
8. 46	36. 0	11. 30	·1131					
9. 10	37. 0	11. 58	·1134					
9. 22	36. 35	12. 10	·1125					
9. 54	31. 30	13. 25	·1118					
10. 41	35. 0	15. 6:	·1122					
11. 10	35. 5	19. 18	·1124					
11. 16	36. 30	22. 13	·1119					
11. 46	32. 55	23. 59	·1113					
12. 19	33. 0							
12. 45	32. 35							
13. 13	34. 30							
13. 43	34. 55							
13. 52	36. 0							
14. 6	35. 5							
15. 30	36. 0							
16. 48	35. 30							
17. 2	36. 0							
17. 15	35. 10							
18. 1	35 45							
	***							
19. 59	35. 30							
20. 43	35. 0							
22. 25	36. 20							
22. 40	37. 30							
23. 10	38. 25							
23. 59	39. 35							
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 0	21. 39. 35	0. 0	·1113	0. 0	·01454	9. 45	49 ·7	50 ·5
1. 0	41. 10	2. 30	·1121	2. 12	·01660	12. 40	48 ·0	48 ·7
2. 15	41. 20	2. 46	·1116	3. 30	·01736	13. 40	47 ·7	48 ·3
2. 49	39. 30	2. 54	·1119	7. 25	·01712	14. 40	47 ·9	48 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
h m	° ′ ″	h m		h m		h m	°	°
3. 1	21. 40. 10	3. 0	·1127	8. 46	·01723	15. 40	48 ·0	48 ·5
3. 25	38. 35	3. 25	·1117	13. 8	·02020	16. 40	48 ·3	48 ·7
3. 40	38. 40	3. 45	·1124	17. 30	·02076	17. 40	49 ·0	49 ·5
3. 59	36. 30	4. 0	·1117	21. 0	·02015	18. 40	49 ·2	49 ·6
4. 16	37. 0	12. 15	·1131	23. 59	·01840	19. 40	50 ·0	50 ·2
5. 21	35. 30	13. 12	·1126			20. 40	50 ·2	50 ·2
6. 30	35. 40	13. 35	·1131			21. 40	50 ·8	50 ·3
6. 54	33. 30	14. 2	·1129			22. 40	51 ·1	50 ·7
7. 15	35. 45	15. 53	·1134			23. 40	51 ·7	51 ·1
7. 39	35. 30	16. 14	·1132					
7. 54	36. 30	17. 30	·1134					
12. 41	37. 30	17. 53	·1131					
14. 11	36. 0	19. 20	·1132					
16. 0	36. 20	21. 14	·1130					
16. 29	35. 30	22. 9	·1123					
17. 29	36. 35	23. 59	·1114					
18. 0	36. 0							
18. 18	37. 0							
18. 35	36. 50							
18. 54	37. 30							
19. 15	37. 0							
19. 42	35. 20							
20. 28	34. 20							
20. 37	34. 50							
20. 45	33. 30							
	***							
21. 34	33. 0							
21. 42	34. 0							
21. 45	33. 30							
23. 59	38. 30							
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 0	21. 38. 30	0. 0	·1114	0. 54	·01792	0. 40	52 ·8	52 ·2
1. 0	40. 30		***	1. 53	·01694	1. 40	54 ·0	53 ·4
	***	2. 52	·1126		·01162	2. 40	55 ·1	54 ·3
2. 52	41. 35		***	4 52	·01218	3. 40	56 ·1	55 ·8
	***	3. 39	·1116	6. 5	·01220	4. 40	57 ·2	56 ·9
3. 41	38. 30		***	8. 51	·01314	5. 40	57 ·5	57 ·0
3. 57	39. 20	3. 55	·1124	13. 0	·01516	6. 40	57 ·5	57 ·0
4. 12	38. 0		***	16. 19	·01780	7. 40	57 ·7	57 ·2
	***	4. 7	·1119	19. 6	·02057	8. 40	56 ·9	56 ·6
5. 45	36. 35		***		·02057	9. 40	56 ·0	56 ·5
	***	4. 22	·1117	20. 27	·01922	10. 40	55 ·5	56 ·0
6. 13	37. 30		***	22. 49	·01930	11. 40	55 ·0	55 ·5
6. 52	35. 25	4. 30	·1121	23. 59	·01879	21. 40	47 ·6	49 ·4
7. 33	36. 55		***					
7. 45	35. 45	4. 58	·1116					
8. 12	35. 30		***					
8. 36	31. 10	5. 20	·1122					
9. 0	34. 30		***					
10. 0	34. 25	6. 3	·1101					
10. 30	33. 45		***					
10. 45	34. 30	6. 8	·1111					
10. 59	32. 30		***					
11. 52	31. 0	6. 10	·1095					
12. 30	35. 0		***					
	***	6. 37	·1106					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 16		Mar. 16						
h m	° ′ ″	h m		h m		h m	°	°
13. 22	21. 35. 30	6. 52	·1097					
13. 45	33. 40		***					
14. 2	35. 20	7. 40	·1097					
14. 22	38. 0		***					
14. 43	37. 50	7. 53	·1103					
14. 57	36. 50		***					
15. 22	36. 10	8. 9	·1097					
15. 40	37. 0		***					
15. 57	33. 30	8. 37	·1111					
16. 8	34. 0	8. 48	·1104					
	***	9. 25	·1106					
16. 35	37. 0	10. 10	·1101					
	***	10. 45	·1101					
17. 6	42. 50		***					
	***	10. 57	·1114					
18. 27	35. 30		***					
	***	11. 16	·1119					
18. 53	37. 30		***					
	***	11. 53	·1102					
20. 2	37. 5		***					
	***	12. 28	·1103					
20. 44	34. 25		***					
	***	13. 22	·1106					
21. 9	35. 0		***					
21. 15	34. 30	14. 9	·1101					
21. 28	36. 10		***					
	***	14. 44	·1112					
23. 14	39. 45		***					
	***	15. 10	·1108					
23. 30	41. 40		***					
23. 59	40. 35	16. 2	·1118					
			***					
		16. 21	·1116					
			***					
		16. 24	·1111					
			***					
		17. 16	·1110					
			***					
		17. 51	·1121					
			***					
		19. 12	·1114					
			***					
		19. 43	·1121					
			***					
		21. 22	·1114					
			***					
		22. 40	·1096					
			***					
		23. 59	·1086					
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 0	21. 40. 35	0. 0	·1086	0. 9	·01880	1. 40	53·2	53·9
0. 20	41. 20		***	1. 15	·01813	3. 40	56·0	56·0
0. 51	41. 25	2. 26	·1096	3. 38	·01465	9. 40	56·6	56·6
1. 0	43. 10		***	4. 20	·01336	21. 40	50·8	52·1
	***	2. 40	·1091	5. 30	·01316			
2. 12	41. 20		***	6. 39	·01169			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 17		Mar. 17						
h m	° ′ ″	h m		h m		h m	°	°
2. 22	21. 42. 0	3. 15	·1092	8. 30	·01162			
	***		***	8. 41	·01125			
3. 5	40. 10	3. 39	·1102	8. 46	·01149			
3. 45	41. 30		***	8. 48	·01135			
3. 56	39. 30	4. 0	·1090	9. 11	·01158			
	***		***	9. 28	·01112			
5. 1	38. 25	4. 54	·1108	11. 37	·01143			
5. 30	33. 0		***	14. 20	·01216			
5. 45	34. 30	5. 30	·1082	17. 0	·01437			
6. 14	30. 15		***	21. 54	·01715			
6. 37	32. 40	5. 38	·1086	23. 18	·01720			
6. 45	30. 25		***	23. 52	·01689			
6. 57	37. 45	6. 0	·1075					
7. 11	32. 0		***					
7. 15	32. 30	6. 16	·1076					
7. 34	29. 50		***					
8. 15	30. 30	6. 38	·1096					
8. 27	36. 50		***					
8. 54	13. 0	6. 51	·1083					
9. 15	29. 0		***					
9. 36	24. 45	7. 0	·1094					
9. 44	25. 50		***					
9. 59	23. 0	7. 14	·1073					
10. 24	29. 30		***					
11. 0	30. 0	8. 23	·1079					
11. 30	34. 0		***					
12. 6	31. 10	8. 30	·1093					
12. 30	34. 0		***					
12. 51	30. 0	8. 41	·1067					
13. 15	39. 20		***					
13. 30	44. 30	8. 46	·1076					
13. 57	39. 20		***					
14. 10	39. 40	8. 51	·1064					
14. 33	36. 30		***					
15. 25	37. 10	9. 15	·1120					
16. 0	36. 50		***					
16. 15	37. 30	9. 26	·1072					
16. 29	36. 15		***					
16. 34	36. 30	9. 38	·1080					
16. 46	35. 45		***					
16. 52	36. 55	9. 51	·1070					
17. 10	35. 30		***					
	***	10. 11	·1081					
18. 2	36. 20		***					
	***	10. 37	·1080					
18. 52	36. 10		***					
19. 13	37. 30	11. 27	·1095					
19. 30	37. 30		***					
19. 45	38. 0	12. 33	·1099					
19. 58	37. 0		***					
20. 7	37. 10	13. 20	·1083					
20. 15	36. 10		***					
20. 30	38. 0	13. 37	·1096					
20. 41	36. 30		***					
20. 52	35. 10	13. 52	·1096					
21. 0	37. 5		***					
21. 24	36. 40	14. 0	·1092					
21. 35	35. 10		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 17		Mar. 17						
h m	° ′ ″	h m		h m		h m	°	°
21. 54	21. 36. 30	18. 30	·1107					
21. 59	36. 0	18. 42	·1100					
	***	22. 51	·1093					
22. 52	38. 30	23. 22	·1082					
	***	23. 35	·1093					
23. 0	41. 0	23. 46	·1085					
23. 28	39. 10							
	***							
23. 42	42. 30							
23. 49	41. 10							
Mar. 18		Mar. 18		Mar. 18		Mar. 18		
0. 21	21. 39. 25	0. 0	·1078	0. 0	·01680	1. 40	56 ·3	57 ·8
0. 33	38. 40		***	1. 24	·01535	3. 40	60 ·0	61 ·3
	***	1. 52	·1082	2. 0	·01520	9. 40	63 ·0	63 ·7
1. 8	40. 0		***	2. 53	·01157	21. 40	56 ·2	57 ·8
1. 15	42. 30	2. 58	·1071	4. 23	{ ·01139			
1. 30	42. 30		***		{ ·01261			
1. 51	44. 20	3. 11	·1092	5. 15	·01196			
2. 11	42. 50		***	5. 52	·01194			
2. 39	42. 0	5. 50	·1083	6. 7	·01237			
3. 0	36. 0		***	8. 55	·01300			
	***	6. 0	·1074	9. 8	·01279			
3. 29	38. 30		***	9. 38	·01285			
	***	6. 23	·1102	10. 5	·01240			
3. 41	37. 20		***	10. 30	·01240			
	***	6. 45	·1094	11. 6	·01301			
4. 2	38. 40		***	13. 49	·01435			
	***	7. 0	·1082	18. 45	·01816			
4. 17	38. 30		***	21. 37	·01975			
	***	7. 12	·1093	23. 59	·02012			
4. 28	39. 30		***					
4. 37	39. 50	7. 30	·1073					
4. 47	39. 10		***					
5. 21	38. 45	7. 43	·1080					
5. 45	38. 30		***					
6. 11	29. 10	8. 0	·1073					
	***		***					
6. 27	27. 30	8. 12	·1079					
	***		***					
6. 45	28. 30	8. 32	·1080					
6. 56	31. 20		***					
7. 9	28. 35	8. 40	·1074					
7. 20	32. 20		***					
7. 42	25. 40	8. 50	·1076					
7. 50	25. 5		***					
7. 54	25. 40	9. 0	·1092					
8. 0	25. 0		***					
8. 16	24. 40	9. 17	·1067					
8. 42	29. 20		***					
8. 50	29. 20	9. 35	·1114					
9. 9	36. 0		***					
9. 30	22. 0	10. 8	·1090					
9. 41	27. 20		***					
10. 10	32. 30	10. 15	·1089					
10. 15	32. 20		***					
10. 27	34. 15	10. 32	·1067					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 18		Mar. 18						
h m	° ′ ″	h m		h m		h m	°	°
10. 54	21. 29. 50	11. 9	·1086					
11. 24	34. 15		***					
11. 29	34. 5	18. 3	·1101					
12. 0	36. 0		***					
14. 29	36. 30	19. 0	·1090					
14. 47	37. 30		***					
15. 8	36. 0	19. 55	·1091					
15. 13	36. 50		***					
15. 25	37. 5	20. 25	·1095					
15. 45	39. 0		***					
16. 15	37. 20	21. 7	·1094					
16. 36	37. 30		***					
16. 42	37. 0	21. 45	·1086					
17. 1	37. 0		***					
17. 11	37. 30	22. 14	·1087					
17. 54	35. 30		***					
18. 3	36. 20	23. 13	·1077					
18. 11	35. 50		***					
18. 15	36. 20	23. 59	·1082					
18. 27	35. 30							
18. 32	36. 0							
18. 39	35. 40							
18. 46	37. 0							
19. 1	36. 30							
19. 21	38. 0							
19. 45	37. 30							
20. 1	38. 25							
20. 36	37. 35							
20. 50	36. 30							
21. 14	34. 55							
21. 22	34. 20							
21. 29	35. 0							
21. 40	34. 30							
21. 52	35. 0							
22. 1	34. 40							
23. 15	38. 40							
	***							
23. 36	38. 30							
	***							
23. 59	39. 40							
Mar. 19		Mar. 19		Mar. 19		Mar. 19		
0. 0	21. 39. 40	0. 0	·1082	0. 36	·02023	1. 40	58 ·0	58 ·8
	***		***	3. 20	·01934	3. 40	58 ·8	59 ·4
0. 13	40. 0	1. 6	·1092	6. 5	·01800	9. 40	57 ·9	59 ·3
	***		***	8. 7	·01749	21. 40	53 ·8	55 ·8
0. 22	41. 50	1. 56	·1091	13. 45	·01897			
	***		***	14. 36	·01875			
0. 32	41. 20	2. 7	·1092	16. 52	{ ·02034			
0. 50	43. 30		***		{ ·01961			
1. 0	43. 20	2. 40	·1094	17. 45	·02005			
1. 13	45. 0		***	22. 36	·02029			
1. 30	43. 50	2. 55	·1083	23. 5	{ ·02017			
1. 52	46. 0		***		{ ·01957			
2. 7	44. 40	4. 10	·1101	23. 59	·01955			
2. 15	45. 30		***					
2. 28	44. 50	4. 43	·1099					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 19		Mar. 19						
h m	° ′ ″	h m		h m		h m	°	°
2. 42	21. 46. 0	5. 14	·1090					
3. 5	45. 0		***					
3. 15	43. 40	5. 52	·1102					
3. 42	42. 0		***					
4. 0	39. 45	11. 19	·1101					
4. 17	40. 5		***					
5. 8	38. 50	11. 22	·1108					
5. 27	36. 30		***					
6. 2	37. 20	11. 40	·1102					
	***		***					
7. 29	37. 45	11. 49	·1107					
8. 9	36. 50		***					
8. 28	37. 40	12. 13	·1111					
9. 45	36. 40		***					
9. 54	37. 30	12. 26	·1106					
	***		***					
11. 20	37. 0	12. 41	·1099					
12. 0	34. 50		***					
12. 11	35. 25	12. 52	·1102					
12. 40	33. 50		***					
12. 59	32. 30	13. 23	·1103					
14. 0	45. 50		***					
14. 50	37. 30	13. 40	·1098					
15. 5	36. 30		***					
15. 24	35. 30	14. 8	·1112					
15. 38	35. 40		***					
15. 43	34. 50	14. 53	·1115					
15. 49	35. 50		***					
16. 16	34. 45	15. 9	·1102					
16. 52	32. 20		***					
17. 11	35. 20	15. 32	·1097					
17. 27	34. 30		***					
17. 52	36. 25	16. 6	·1104					
18. 28	36. 30		***					
	***	17. 13	·1100					
19. 31	38. 40		***					
	***	18. 28	·1112					
20. 14	38. 30		***					
20. 24	37. 10	19. 9	·1097					
20. 46	36. 0		***					
21. 0	36. 30	19. 41	·1104					
	***		***					
21. 32	35. 30	22. 0	·1093					
	***		***					
22. 33	35. 35	23. 10	·1096					
	***		***					
23. 59	40. 30	23. 59	·1084					
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 0	21. 40. 30	0. 0	·1084	0. 40	·01943	1. 40	54·8	56·4
	***		***	3. 36	·01732	3. 40	55·2	56·2
0. 30	40. 50	1. 22	·1088	5. 15	·01977	9. 40	53·0	54·3
2. 45	41. 30		***	6. 24	·02037	21. 40	43·2	45·2
3. 41	40. 10	1. 39	·1095	7. 30	·02032			
3. 46	40. 50		***	8. 54	·02036			
4. 0	39. 45	2. 10	·1101		·01981			
4. 27	38. 50		***	9. 45	·02017			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 20		Mar. 20		Mar. 20				
h m	° ′ ″	h m		h m		h m	°	°
5. 3	21. 39. 0	3. 54	·1096	17. 14	·01974			
5. 30	36. 40		***	19. 5	·01960			
6. 0	34. 35	4. 7	·1101		·01844			
6. 10	35. 20		***	21. 50	·01854			
6. 22	35. 0	4. 53	·1097	23. 59	·01811			
6. 40	37. 0		***					
6. 48	34. 30	5. 18	·1085					
6. 58	35. 0		***					
7. 6	33. 0	6. 40	·1092					
7. 12	34. 5		***					
7. 23	34. 30	7. 0	·1120					
7. 39	31. 50		***					
8. 10	37. 35	7. 7	·1111					
8. 17	36. 55		***					
9. 8	37. 50	7. 10	·1113					
11. 42	37. 0		***					
12. 13	35. 30	7. 16	·1112					
13. 12	37. 40		***					
14. 12	37. 30	7. 34	·1093					
	***		***					
15. 0	40. 0	7. 40	·1097					
15. 39	37. 50		***					
16. 24	36. 35	7. 58	·1101					
19. 46	35. 30		***					
20. 0	34. 40	9. 7	·1104					
20. 10	35. 0		***					
20. 17	34. 0	10. 48	·1108					
20. 26	34. 20		***					
20. 54	33. 30	11. 32	·1106					
23. 50	40. 30		***					
23. 59	40. 30	12. 0	·1113					
			***					
		12. 41	·1106					
			***					
		13. 53	·1111					
			***					
		14. 18	·1108					
			***					
		15. 0	·1111					
			***					
		15. 44	·1116					
			***					
		16. 7	·1113					
			***					
		19. 25	·1121					
			***					
		20. 32	·1119					
			***					
		20. 50	·1114					
			***					
		22. 8	·1119					
			***					
		22. 24	·1113					
			***					
		23. 59	·1108					
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 0	21. 40. 30	0. 0	·1108	0. 53	·01796	1. 40	46·4	47·0
0. 59	40. 40		***	2. 22	·01736	3. 40	48·0	48·8

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
h m	° ′ ″	h m		h m		h m	°	°
1. 29	21. 42. 0	2. 40	·1099	5. 40	·01382	9. 40	46 ·2	48 ·2
1. 45	40. 0		***	6. 46	·01307	22. 52	39 ·5	42 ·3
1. 54	41. 0	3. 19	·1097	8. 35	·01320			
1. 56	40. 20		***	10. 11	·01386			
2. 20	41. 20	4. 27	·1107	16. 55	·01854			
2. 44	38. 30		***		·01782			
2. 56	38. 40	10. 20	·1120	19. 56	·01808			
4. 16	36. 20		***		·01740			
5. 28:	34. 45	11. 31	·1120	21. 9	·01749			
8. 35	35. 50		***	23. 11	·01701			
13. 40	35. 0	14. 16	·1128					
13. 59	34. 30		***					
14. 15	36. 50	14. 58	·1125					
14. 30	35. 55		***					
18. 8	35. 30	19. 37	·1131					
19. 15	37. 0		***					
19. 41	35. 55	23. 59	·1118					
	***							
19. 57	36. 50							
	***							
20. 32	34. 30							
	***							
20. 50	35. 30							
20. 56	34. 45							
	***							
21. 15	35. 20							
21. 24	34. 20							
21. 40	34. 35							
21. 50	34. 30							
22. 23	34. 45							
	***							
22. 43	37. 0							
	***							
23. 14	38. 20							
23. 24	39. 20							
23. 50	40. 0							
23. 59	40. 25							
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 0	21. 40. 30	0. 0	·1118	0. 0	·01670	7. 18	42 ·2	44 ·4
0. 17	42. 0	0. 48	·1121	6. 6	·01472	12. 40	42 ·1	44 ·7
1. 0:	42. 30	3. 6	·1133	7. 45	·01384	13. 40	42 ·5	44 ·5
2. 42	41. 0	3. 22	·1125	14. 37	·01297	14. 40	42 ·4	44 ·6
3. 0	42. 0	4. 5	·1126	16. 10	·01335	15. 40	43 ·0	44 ·8
3. 22	39. 30	5. 6	·1122	20. 30	·01240	16. 40	43 ·4	45 ·0
4. 0	37. 55	5. 17	·1123	23. 37	·01221	17. 40	44 ·2	46 ·0
4. 17	38. 20	5. 37	·1118			18. 40	44 ·8	46 ·2
4. 52	36. 50	6. 22	·1123			19. 40	45 ·1	46 ·1
5. 11	34. 30	6. 37	·1118			20. 40	45 ·0	45 ·5
5. 30	33. 0	7. 36	·1127			21. 40	45 ·2	45 ·6
5. 43	32. 0	8. 10	·1116			22. 40	45 ·3	45 ·6
5. 48	32. 5	8. 40	·1124			23. 40	45 ·5	45 ·8
5. 58	33. 5	9. 47	·1130					
6. 8	33. 50	12. 5	·1126					
6. 22	35. 30	12. 32	·1129					
6. 48	35. 20	12. 45	·1141					
7. 30	33. 50	12. 49	·1137					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 22		Mar. 22						
h m	° ′ ″	h m		h m		h m	°	°
7. 52	21. 34. 55	13. 34	·1124					
8. 14	34. 20	13. 52	·1134					
8. 56	37. 0	15. 41	·1120					
9. 42	37. 20	16. 3	·1123					
11. 54	36. 50	17. 31	·1121					
12. 46	39. 0	17. 57	·1122					
13. 10	34. 20	18. 20	·1121					
13. 41	33. 50	19. 7	·1106					
14. 9	38. 35	20. 0	·1117					
14. 39	34. 30	20. 5	·1114					
15. 11	34. 0	21. 2	·1113					
15. 28	33. 25	21. 16	·1115					
	***	22. 11	·1108					
17. 22	34. 30	22. 40	·1097					
17. 37	33. 50	23. 0	·1099					
17. 46	34. 40	23. 12	·1098					
18. 9	33. 35	23. 59	·1105					
18. 43	34. 50							
19. 24	38. 0							
19. 58	37. 30							
20. 16	35. 5							
20. 24	35. 30							
20. 40	34. 20							
20. 44	34. 30							
21. 4	34. 0							
22. 14	37. 0							
22. 56	39. 30							
23. 55	39. 50							
23. 59	40. 40							
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
0. 0	21. 40. 40	0. 0	·1104	0. 0	·01219	0. 40	46 ·2	46 ·6
0. 13	40. 25	3. 10	·1112	2. 16	·01175	1. 40	46 ·8	47 ·0
1. 18	41. 30	4. 41	·1110	4. 49	·01042	2. 40	47 ·2	47 ·5
3. 10	40. 0	8. 52	·1116	7. 45	·01093	3. 40	48 ·0	48 ·0
3. 36	38. 40	9. 6	·1123	13. 0	·01200	4. 40	49 ·0	48 ·7
4. 37	36. 50	9. 15	·1119	14. 35	·01262	5. 40	49 ·8	50 ·0
6. 0:	35. 10	10. 1	·1126	19. 24	·01576	6. 40	49 ·5	49 ·8
6. 56	35. 20	10. 22	·1117	22. 0	·01735	7. 40	50 ·0	51 ·0
	***	10. 39	·1121	23. 59	·01706	8. 40	50 ·1	51 ·0
8. 22	34. 50	10. 55	·1117			9. 40	49 ·5	49 ·2
8. 44	32. 30	12. 9	·1119			10. 40	49 ·0	49 ·0
9. 0	30. 40	12. 41	·1117			11. 40	48 ·5	48 ·5
9. 13	32. 20	14. 8	·1126			21. 40	42 ·3	44 ·4
9. 22	31. 0	14. 44	·1122					
9. 44	32. 50	18. 54	·1133					
10. 0	33. 0	20. 39	·1125					
10. 26	34. 20	23. 59	·1107					
10. 48	33. 50							
13. 22	36. 30							
13. 40	38. 10							
14. 10	39. 20							
14. 57	36. 50							
15. 27	37. 30							
15. 58	36. 25							
16. 39	35. 50							
16. 44	36. 20							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 23								
h m	° ′ ″	h m		h m		h m	°	°
16. 58	21. 35. 0							
17. 40	35. 50							
17. 48	35. 0							
18. 3	34. 40							
18. 15	35. 30							
18. 39	34. 50							
18. 56	35. 0							
19. 42	33. 50							
20. 59	32. 30							
21. 16	33. 0							
21. 30	32. 50							
23. 59	42. 0							
Mar. 24		Mar. 24		Mar. 24		Mar. 24		
0. 0	21. 42. 0	0. 0	·1107	0. 15	·01697	1. 40	47 ·8	48 ·3
0. 15	43. 10		***	1. 45	·01585	3. 40	51 ·0	51 ·2
0. 52	43. 45	3. 34	·1104	2. 37	·01476	9. 40	52 ·2	52 ·7
1. 25	42. 50		***	4. 51	·01121	21. 40	46 ·7	48 ·5
1. 40	43. 5	3. 55	·1110	5. 37	·01040			
3. 58	38. 50		***	5. 48	·01063			
4. 20	37. 40	4. 54	·1102	10. 5	·01155			
4. 52	36. 30		***	17. 21	·01382			
6. 45	35. 30	5. 18	·1106	20. 49	·01576			
7. 32	36. 30		***	22. 45	·01634			
7. 50	36. 0	6. 7	·1103	23. 49	·01627			
8. 16	34. 20		***					
8. 42	35. 25	11. 6	·1113					
8. 55	34. 50	18. 48	·1121					
9. 11	35. 30		***					
9. 30	35. 30	20. 7	·1114					
9. 44	36. 0	20. 26	·1115					
14. 28	36. 40	21. 39	·1103					
16. 0	36. 20		***					
17. 12	35. 30	23. 59	·1102					
17. 21	36. 0							
17. 47	35. 30							
18. 13	35. 50							
18. 59	34. 35							
19. 22	34. 30							
19. 48	33. 0							
20. 45	33. 15							
21. 9	33. 50							
21. 14	33. 20							
21. 58	36. 0							
22. 9	37. 30							
22. 14	37. 5							
22. 25	37. 30							
22. 31	38. 40							
23. 12	39. 50							
23. 59	41. 5							
Mar. 25		Mar. 25		Mar. 25		Mar. 25		
0. 0	21. 41. 5	0. 0	·1102	0. 0	·01633	1. 40	48 ·3	50 ·0
0. 15	42. 0		***	3. 12	·01622	3. 40	49 ·7	51 ·4
0. 26	41. 30	1. 8	·1113	7. 21	·01452	9. 40	50 ·0	50 ·5
0. 54	42. 30	1. 46	·1110	8. 36	·01430	21. 40	44 ·0	46 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 25		Mar. 25		Mar. 25				
h m	° ′ ″	h m		h m		h m	°	°
2. 32	21. 41. 45	2. 30	·1114	14. 19	·01624			
3. 29	39. 30	3. 31	·1109	18. 25	·01916			
3. 42	39. 50	3. 40	·1113		·01870			
3. 56	38. 50	4. 36	·1105	19. 21	·01898			
5. 33	35. 40	5. 2	·1110	21. 44	·01880			
5. 45	36. 20	5. 40	·1103	23. 59	·01834			
6. 0	35. 30	7. 22	·1116					
7. 26	36. 30	8. 6	·1118					
10. 45	36. 20	10. 7	·1119					
11. 15	31. 30	10. 22	·1115					
11. 25	32. 0	10. 31	·1120					
12. 0	31. 30	10. 46	·1119					
12. 41	34. 0	11. 2	·1132					
13. 14	38. 10	11. 50	·1122					
13. 37	37. 20	13. 13	·1114					
14. 10	36. 40	13. 36	·1123					
15. 27	36. 50	15. 10	·1120					
	***	18. 53	·1122					
18. 7	36. 10	20. 17	·1119					
18. 24	35. 0	22. 10	·1107					
18. 43	35. 10	23. 59	·1111					
20. 38	32. 0							
21. 15	32. 30							
22. 26	37. 0							
23. 10	38. 40							
23. 15	38. 30							
23. 59	40. 10							
Mar. 26		Mar. 26		Mar. 26		Mar. 26		
0. 0	21. 40. 10	0. 0	·1111	0. 24	·01807	1. 40	48 ·0	49 ·0
	***		***	3. 0	·01596	3. 40	50 ·8	51 ·5
0. 59	42. 20	4. 58	·1116	6. 30	·01143	9. 40	53 ·0	53 ·5
4. 28	36. 40		***	7. 21	·01078	21. 40	48 ·0	49 ·5
5. 39	35. 30	5. 23	·1111	10. 0	·01080			
6. 0	36. 0		***	14. 28	·01196			
6. 40	35. 5	5. 36	·1114	20. 5	·01515			
7. 15	36. 15		***	23. 54	·01660			
7. 39	35. 35	5. 51	·1106					
7. 54	36. 35	7. 7	·1116					
8. 12	35. 40	7. 22	·1114					
8. 39	36. 45	7. 32	·1118					
	***	8. 0	·1114					
12. 9	36. 5	8. 10	·1120					
13. 44	36. 20	8. 55	·1116					
14. 10	37. 10	9. 37	·1117					
14. 42	36. 40		***					
	***	11. 40	·1115					
19. 9	35. 30		***					
19. 24	34. 25	11. 47	·1119					
	***		***					
20. 0	34. 0	12. 24	·1117					
	***		***					
21. 5	33. 20	17. 35	·1121					
	***		***					
22. 0	34. 30	20. 19	·1118					
23. 12	38. 30		***					
23. 59	39. 30	23. 59	·1106					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.27		Mar.27		Mar.27		Mar.27		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 30	0. 0	·1106	0. 23	·01637	1. 40	49 ·8	52 ·0
1. 37	40. 30		***	2. 20	·01628	3. 40	51 ·3	52 ·0
2. 45	40. 30	3. 25	·1114	4. 35	·01523	9. 40	54 ·0	54 ·5
4. 36	37. 15		***	7. 38	·01284	21. 40	50 ·2	50 ·5
5. 28	36. 0	5. 24	·1113	9. 30	·01160			
6. 30	35. 0		***	13. 39	·01062			
7. 30	35. 30	6. 7	·1111	15. 51	·01116			
7. 37	36. 0		***	21. 35	·01434			
8. 20	35. 0	8. 0	·1117	23. 20	·01506			
11. 32	33. 50	8. 23	·1114					
12. 0	32. 0	9. 45	·1115					
12. 13	33. 30	10. 42	·1114					
12. 32	33. 0	11. 0	·1118					
13. 4	34. 0	11. 25	·1116					
14. 42	35. 30	12. 6	·1122					
15. 6	37. 0	12. 50	·1117					
15. 24	37. 0	14. 36	·1116					
15. 45	35. 20	15. 0	·1122					
16. 15	34. 40	20. 10	·1119					
16. 40	34. 50	22. 57	·1101					
16. 51	34. 0	23. 59	·1097					
17. 45	35. 45							
18. 11	35. 20							
18. 43	35. 30							
20. 51	33. 10							
21. 30:	33. 25							
22. 25	35. 20							
23. 59	40. 30							
Mar.28		Mar.28		Mar.28		Mar.28		
0. 0	21. 40. 30	0. 0	·1097	0. 0	·01508	1. 40	53 ·0	53 ·8
1. 22	43. 20		***	1. 19	·01481	3. 40	55 ·0	55 ·8
2. 10	43. 50	2. 22	·1112	2. 30	·01406	9. 40	55 ·3	56 ·0
2. 41	42. 50	2. 44	·1112	5. 25	·01055	23. 9	49 ·0	51 ·0
2. 44	43. 20	2. 48	·1105	6. 30	·00966			
2. 52	41. 20	3. 25	·1112	7. 18	·00943			
3. 36	39. 50		***		·01040			
	***	3. 45	·1111	8. 0	·01029			
8. 13	35. 30		***	13. 34	·01254			
9. 42	35. 40	5. 2	·1117	19. 10	·01674			
10. 9	33. 35	5. 18	·1112	20. 56	·01736			
10. 21	34. 15	5. 33	·1113	22. 8	·01740			
11. 11	31. 50	6. 6	·1110	23. 21	·01731			
12. 56	36. 20	6. 15	·1114					
13. 56	35. 0	6. 28	·1110					
14. 32	38. 20	7. 4	·1114					
15. 14	35. 40	7. 22	·1110					
16. 30	36. 30	7. 34	·1112					
16. 41	36. 0	8. 0	·1106					
17. 15	37. 0	8. 17	·1112					
17. 25	36. 35	8. 30	·1107					
17. 43	37. 20	9. 41	·1111					
18. 21	35. 25	10. 7	·1110					
	***	10. 29	·1116					
19. 22	38. 40	10. 56	·1112					
	***	11. 13	·1114					
19. 45	37. 30		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.28		Mar.28						
h m	° ′ ″	h m		h m		h m	°	°
20. 32	21. 36. 30	13. 33	·1116					
20. 40	37. 30	13. 43	·1114					
	***	14. 4	·1116					
21. 39	36. 0	14. 11	·1114					
	***	14. 30	·1120					
22. 22	37. 5	15. 11	·1118					
22. 39	38. 30	18. 10	·1123					
23. 6	38. 40	18. 34	·1119					
23. 59	39. 50	19. 52	·1121					
		23. 59	·1100					
Mar.29		Mar.29		Mar.29		Mar.29		
0. 0	21. 39. 50	0. 0	·1100	0. 0	·01722	8. 4	52 ·2	53 ·0
	***	0. 56	·1103	1. 18	·01700	12. 40	52 ·3	53 ·4
0. 45	43. 30		***	3. 0	·01706	13. 40	52 ·2	53 ·3
1. 1	43. 50	6. 10	·1116	5. 9	·01656	14. 40	52 ·4	53 ·4
1. 24	43. 25		***	9. 0	·01460	15. 40	52 ·7	53 ·5
2. 24	43. 55	11. 40	·1116	13. 5	·01407	16. 40	53 ·1	53 ·9
2. 44	42. 40	14. 11	·1109	14. 40	·01452	17. 40	53 ·1	53 ·9
	***	15. 7	·1125	21. 10	·01460	18. 40	53 ·2	54 ·0
6. 40	35. 40	15. 38	·1114	23. 59	·01444	19. 40	53 ·5	54 ·2
7. 36	36. 25	16. 25	·1116			20. 40	53 ·6	54 ·2
8. 5	35. 40	16. 54	·1112			21. 40	54 ·3	54 ·1
9. 17	36. 30	17. 42	·1116			22. 40	54 ·4	54 ·6
9. 45	36. 0		***			23. 40	54 ·8	54 ·8
10. 57	37. 0	18. 22	·1114					
13. 45	36. 30		***					
14. 22	37. 0	18. 30	·1108					
14. 29	37. 50		***					
14. 46	36. 40	19. 24	·1114					
15. 2	39. 0		***					
15. 20	35. 0	19. 39	·1108					
15. 40	34. 0		***					
15. 58	35. 5	23. 59	·1095					
16. 15	34. 55							
16. 30	33. 30							
16. 55	32. 50							
17. 10	34. 40							
17. 15	34. 10							
17. 29	35. 0							
17. 46	33. 30							
18. 19	35. 0							
18. 29	34. 5							
18. 43	35. 0							
	***							
20. 1	36. 0							
	***							
21. 20	32. 10							
22. 0	33. 30							
22. 29	35. 0							
23. 12	37. 30							
23. 30	38. 0							
23. 59	40. 0							
Mar.30		Mar.30		Mar.30		Mar.30		
0. 0	21. 40. 0	0. 0	·1095	0. 42	·01422	0. 40	55 ·2	55 ·1
0. 43	41. 0	2. 23	·1095	2. 35	·01335	1. 40	55 ·9	55 ·2
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 30		Mar. 30		Mar. 30		Mar. 30		
h m	° ′	h m		h m		h m		
2. 14	21. 42. 30	2. 30	·1101	3. 40	·01244	2. 40	56 ·2	56 ·0
2. 22	42. 5		***	5. 41	·01145	3. 40	56 ·0	55 ·9
2. 28	43. 0	2. 47	·1093		·01421	4. 40	56 ·4	56 ·8
2. 45	41. 30		***	6. 47	·01388	5. 40	56 ·3	56 ·5
3. 27	41. 20	3. 26	·1101		·01596	6. 40	56 ·5	56 ·5
3. 34	40. 30		***	7. 45	·01569	7. 40	56 ·2	56 ·5
4. 0	40. 20	3. 45	·1099	17. 9	·01464	8. 40	56 ·2	56 ·4
4. 9	40. 35		***	19. 39	·01208	9. 40	56 ·2	56 ·4
4. 48	38. 40	5. 52	·1106	20. 19	·01997	10. 40	56 ·5	56 ·3
5. 13	38. 50		***		·01884	11. 40	56 ·0	56 ·2
5. 39	38. 0	4. 6	·1104	21. 18	·01916	21. 40	52 ·2	53 ·2
6. 17	37. 30		***	23. 22	·01845			
6. 36	37. 20	4. 26	·1095					
6. 53	37. 40		***					
7. 24	34. 0	5. 0	·1102					
7. 34	36. 0		***					
8. 0	29. 20	7. 2	·1101					
8. 16	32. 20	7. 22	·1116					
9. 23	35. 50	7. 45	·1097					
10. 36	34. 50	7. 53	·1102					
10. 42	34. 20	8. 10	·1101					
10. 51	34. 0	8. 19	·1113					
11. 0	33. 20	8. 31	·1112					
	***	8. 52	·1101					
12. 28	33. 55	9. 25	·1103					
13. 12	35. 40	10. 22	·1099					
13. 50	36. 0	10. 30	·1101					
14. 4	35. 25	10. 52	·1098					
	***	11. 7	·1112					
17. 27	35. 0	11. 26	·1102					
17. 34	35. 35	11. 43	·1110					
17. 46	34. 45	12. 13	·1101					
18. 1	35. 20	13. 0	·1099					
18. 11	34. 40		***					
18. 54	34. 25	13. 51	·1103					
20. 24	32. 50		***					
21. 23	33. 0	14. 6	·1101					
23. 59	37. 40		***					
		18. 40	·1114					
		19. 49	·1114					
		20. 54	·1111					
		21. 57	·1102					
		23. 36	·1097					
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
0. 0	21. 37. 40	0. 7	·1096	0. 0	·01837	1. 40	54 ·1	55 ·4
0. 24	39. 0	0. 37	·1098	0. 49	·01817	3. 40	55 ·0	57 ·0
0. 45	42. 0	0. 45	·1106	2. 15	·01710	9. 40	57 ·7	59 ·6
1. 4	40. 40	0. 53	·1100	4. 54	·01386	21. 40	50 ·1	52 ·4
1. 36	41. 30	1. 24	·1096	8. 0	·01098			
2. 0	40. 35	1. 45	·1102	12. 48	·01175			
2. 15	41. 30	2. 0	·1100	14. 30	·01269			
3. 36	39. 20	2. 13	·1104	16. 29	·01455			
3. 46	39. 50	3. 0	·1102	18. 19	·01676			
4. 21	38. 0	3. 12	·1106	20. 8	·01935			
6. 52	35. 0		***		·01845			
11. 43	35. 30	3. 37	·1104	23. 59	·01876			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 31		Mar. 31						
h m	° ′ ″	h m		h m		h m		
15. 12	21. 35. 30	3. 48	·1112					
	***		***					
17. 57	35. 30	4. 0	·1108					
	***		***					
19. 50	33. 35	6. 55	·1104					
	***	7. 3	·1112					
21. 40	32. 0		***					
22. 12	32. 30	7. 13	·1106					
23. 0	34. 25		***					
23. 24	36. 30	7. 32	·1110					
23. 43	36. 35		***					
		8. 45	·1103					
			***					
		8. 57	·1108					
			***					
		11. 30	·1102					
			***					
		11. 35	·1106					
			***					
		12. 27	·1105					
			***					
		12. 47	·1110					
			***					
		13. 0	·1106					
		17. 37	·1122					
		19. 40	·1126					
		21. 15	·1120					
		22. 40	·1104					
		23. 7	·1107					
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
1. 27	21. 41. 0	1. 26	·1107	0. 50	·01836	1. 40	54 ·0	55 ·8
1. 40	42. 0		***	4. 24	·01613	3. 40	57 ·2	57 ·2
1. 52	40. 35	2. 52	·1100	8. 53	·01257	9. 40	59 ·0	59 ·0
1. 59	42. 0		***	9. 4	·01295	21. 40	52 ·2	53 ·7
2. 28	43. 0	4. 6	·1114	11. 0	·01289			
3. 42	39. 20		***	13. 53	·01436			
6. 0	36. 40	5. 10	·1108	14. 30	·01457			
6. 42	36. 50		***	16. 45	·01648			
7. 37	34. 20	6. 41	·1114	20. 23	·01905			
8. 42	37. 5		***	21. 40	·01843			
8. 59	36. 10	7. 25	·1104	22. 8	·01832			
9. 30	36. 55		***	23. 59	·01690			
9. 49	36. 30	9. 2	·1115					
10. 10	33. 0	9. 54	·1109					
10. 24	35. 50	10. 3	·1116					
10. 39	35. 20	10. 25	·1112					
11. 0	39. 30		***					
11. 39	32. 0	10. 40	·1122					
11. 55	33. 30		***					
12. 8	33. 20	11. 5	·1112					
12. 14	34. 0		***					
12. 40	33. 55	12. 5	·1118					
12. 48	33. 20	12. 27	·1111					
13. 0	35. 0	12. 44	·1116					
13. 10	34. 5	13. 16	·1110					
13. 29	33. 50	13. 40	·1114					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 1		Apr. 1						
h m	° ′ ″	h m		h m		h m	°	°
13. 44	21. 35. 0	13. 53	·1129					
14. 11	34. 55	14. 25	·1124					
15. 0	31. 20	15. 3	·1114					
15. 24	32. 0	16. 30	·1121					
15. 44	31. 0	16. 52	·1120					
15. 54	31. 20	17. 11	·1114					
16. 11	32. 40		***					
16. 42	33. 40	17. 28	·1114					
16. 53	33. 10		***					
17. 16	38. 20	17. 52	·1124					
17. 42	36. 10	19. 36	·1130					
18. 13	35. 0	21. 22	·1122					
19. 10	34. 20	22. 49	·1108					
19. 18	35. 0	23. 59	·1113					
19. 30	34. 35							
	***							
19. 42	35. 30							
19. 50	35. 10							
20. 25	35. 10							
20. 31	35. 40							
20. 46	35. 0							
21. 58	36. 40							
22. 3	36. 30							
22. 11	37. 25							
22. 15	37. 15							
22. 29	38. 15							
22. 50	38. 40							
23. 10	40. 30							
23. 22	39. 30							
23. 59	42. 0							
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	21. 42. 0	0. 0	·1113	1. 6	·01623	1. 40	54 ·2	55 ·3
0. 55	43. 0	3. 10	·1114	2. 49	·01545	3. 40	56 ·8	57 ·2
1. 39	40. 30		***	6. 15	·01140	9. 40	61 ·0	60 ·6
2. 13	40. 50	3. 25	·1119	7. 6	·01076	21. 40	54 ·3	55 ·3
2. 26	40. 0		***	8. 3	·01035			
2. 43	39. 50	3. 39	·1113	8. 15	·01060			
2. 54	39. 45		***	10. 4	·01069			
3. 22	38. 20	5. 50	·1116	10. 13	·01095			
3. 28	39. 0	7. 9	·1110	11. 21	·01103			
3. 36	38. 55	7. 39	·1113	15. 39	·01316			
3. 42	38. 0	8. 0	·1110	18. 35	·01720			
4. 11	36. 30	11. 14	·1108	21. 30	·01776			
4. 22	36. 30	15. 42	·1117	22. 34	·01820			
4. 33	35. 20	19. 12	·1123	23. 59	·01816			
5. 30	33. 30	20. 25	·1121					
6. 22	32. 30		***					
11. 37	33. 10	23. 38	·1103					
11. 53	32. 50	23. 47	·1111					
12. 59	33. 50	23. 59	·1102					
17. 20	33. 20							
18. 32	33. 20							
19. 9	32. 50							
20. 11	31. 50							
20. 40	31. 5							
21. 39	31. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 2								
h m	° ′ ″	h m		h m		h m	°	°
22. 12	21. 32. 50							
22. 16	32. 30							
22. 28	33. 0							
22. 36	33. 0							
23. 2	34. 20							
23. 21	36. 0							
23. 30	36. 30							
23. 38	36. 25							
23. 45	38. 30							
	***							
23. 59	37. 30							
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
0. 0	21. 37. 30	0. 0	·1102	0. 33	·01787	1. 40	57 ·0	57 ·8
0. 14	39. 0		***	2. 30	·01694	3. 40	58 ·0	59 ·6
0. 30	39. 50	1. 50	·1101	4. 49	·01321	9. 40	59 ·2	61 ·1
0. 46	40. 0	2. 12	·1112	7. 50	·01088	21. 40	53 ·1	55 ·1
1. 12	42. 30	2. 32	·1103	8. 28	·01023			
1. 27	41. 50	4. 9	·1113	8. 38	·01060			
2. 10	41. 30	4. 39	·1110	10. 39	·01128			
2. 13	43. 25	4. 47	·1114	13. 55	·01327			
2. 36	41. 20	5. 0	·1110	16. 10	·01500			
4. 47	37. 40	5. 8	·1114	20. 7	{ ·01982			
4. 59	36. 30	5. 23	·1104		{ ·01944			
5. 10	37. 0	5. 32	·1112	23. 59	·01875			
5. 27	35. 0	6. 22	·1119					
6. 22	35. 0	6. 36	·1116					
6. 57	34. 20	8. 52	·1124					
7. 54	35. 15	9. 9	·1121					
	***	10. 50	·1122					
10. 42	34. 30	11. 0	·1129					
11. 0	36. 0	14. 7	·1116					
	***	14. 23	·1117					
12. 29	33. 30	19. 36	·1126					
13. 30	35. 35	20. 30	·1123					
14. 10	34. 30	23. 59	·1104					
14. 28	34. 40							
14. 47	34. 30							
15. 29	36. 35							
16. 28	34. 30							
18. 43	33. 5							
20. 23:	31. 45							
23. 59	39. 10							
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 0	21 39. 15	0. 0	·1104	0. 9	·01857	1. 40	55 ·0	57 ·1
1. 42	41. 50	0. 58	·1103	1. 6	·01820	3. 40	56 ·2	57 ·7
2. 25	41. 0	1. 51	·1112	3. 12	·01787	9. 40	57 ·8	59 ·0
2. 45	39. 10	2. 41	·1106	8. 20	·01512	23. 20	56 ·0	57 ·0
	***	3. 33	·1115	10. 0	·01476			
3. 27	38. 30		***	11. 39	·01467			
3. 45	38. 0	5. 15	·1116	14. 0	·01515			
3. 43	36. 0		***	14. 5	·01468			
7. 10	35. 40	5. 30	·1121	16. 20	·01497			
7. 25	36. 0	6. 37	·1122	20. 10	·01474			
7. 40	35. 35	7. 6	·1116	23. 56	·01363			
8. 21	33. 0	7. 22	·1117					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 4		Apr. 4						
h m	° ′ ″	h m		h m		h m	°	°
8. 44	21. 34. 10	7. 32	·1124					
8. 58	32. 40	7. 41	·1121					
9. 6	33. 15		***					
9. 42	32. 50	7. 54	·1124					
9. 45	34. 25		***					
10. 45	35. 25	8. 43	·1117					
11. 30	34. 30	12. 6	·1127					
11. 50	34. 55	13. 24	·1121					
12. 27	33. 35	13. 50	·1124					
12. 52	33. 40	17. 30	·1128					
13. 13	34. 40	19. 40	·1121					
13. 24	34. 30	22. 0	·1106					
13. 42	35. 20	23. 53	·1107					
14. 8	34. 15							
16. 10	35. 30							
16. 29	35. 0							
18. 15	34. 55							
19. 16	32. 35							
19. 26	33. 0							
19. 34	32. 30							
19. 39	32. 45							
20. 34	32. 0							
21. 54	34. 10							
23. 20	39. 0							
23. 59	40. 40							
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
0. 0	21. 40. 40	0. 0	·1105	0. 0	·01360	9. 40	60 ·8	62 ·5
1. 2	42. 50	1. 22	·1098	2. 9	·01326	12. 40	60 ·2	61 ·2
2. 7	42. 50	1. 40	·1104	3. 39	·01219	13. 40	59 ·9	61 ·2
2. 33	41. 30	2. 24	·1101	5. 18	·01077	14. 40	59 ·9	61 ·0
2. 47	41. 30	6. 36	·1116	7. 30:	·01018	15. 40	59 ·8	61 ·0
3. 45	40. 0	7. 38	·1112	15. 35	·01136	16. 40	59 ·9	60 ·9
3. 57	40. 0	7. 50	·1106	16. 18	·01134	17. 40	60 ·0	61 ·0
4. 15	39. 20	8. 5	·1113	20. 15:	·01237	18. 40	60 ·2	61 ·1
4. 28	39. 20	8. 51	·1111	23. 59	·01228	19. 40	60 ·2	61 ·0
5. 27	37. 10	9. 8	·1119			20. 40	60 ·1	61 ·1
6. 7	36. 50	9. 13	·1115			21. 40	60 ·3	61 ·6
6. 11	36. 10	9. 40	·1111			22. 40	60 ·3	61 ·5
6. 28	36. 30	10. 17	·1117			23. 40	60 ·2	61 ·3
7. 10	35. 30	10. 34	·1113					
7. 27	36. 30	10. 52	·1116					
7. 58	34. 0	11. 25	·1112					
8. 18	34. 50	12. 10	·1111					
8. 28	33. 50	12. 38	·1114					
8. 57	34. 50	12. 57	·1110					
9. 5	32. 45	13. 30	·1111					
9. 14	32. 50	14. 24	·1102					
9. 23	32. 20	15. 39	·1101					
9. 43	34. 15	16. 19	·1107					
10. 19	32. 30	16. 24	·1102					
10. 41	32. 30	18. 26	·1101					
10. 53	33. 5	18. 39	·1103					
11. 9	32. 0	20. 30	·1101					
11. 56	33. 0	21. 51	·1092					
12. 29	30. 40		***					
13. 6	30. 35	23. 59	·1096					
13. 29	32. 35							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 5								
h m	° ′ ″	h m		h m		h m	°	°
14. 3	21. 30. 30							
14. 23	31. 30							
14. 45	31. 10							
15. 24	33. 30							
15. 56	38. 10							
16. 39	32. 50							
17. 57	32. 40							
20. 14	31. 0							
21. 14	32. 0							
23. 59	39. 50							
Apr. 6		Apr. 6		Apr. 6		Apr. 6		
0. 0	21. 39. 50	0. 0	·1096	0. 11	·01236	0. 40	60 ·0	61 ·0
2. 52:	41. 5		***	2. 4	·01255	1. 40	60 ·2	61 ·3
4. 11	38. 30	1. 46	·1098	3. 21	·01220	2. 40	60 ·8	61 ·6
6. 32:	34. 20		***	4. 15	·01149	3. 40	61 ·2	62 ·2
	***	4. 52	·1091	5. 21	·01018	4. 40	61 ·5	62 ·5
8. 35	33. 40		***		·01120	5. 40	62 ·5	63 ·0
9. 20	35. 0	5. 10	·1098	6. 51	·01064	6. 40	62 ·3	64 ·0
9 44	33. 0		***	8. 0	·01055	7. 40	62 ·2	63 ·0
10. 11	35. 30	7. 2	·1104	10. 9	·01117	8. 40		
10. 22	34. 30		***	11. 6	·01113	9. 40	61 ·4	62 ·8
10. 42	34. 0	7. 27	·1102	13. 15	·01300	10. 40	61 ·0	62 ·0
11. 12	29. 25		***	15. 5	·01542	11. 40	60 ·0	61 ·7
11. 27	29. 20	7. 50	·1106	17. 37	·01857	21. 40	53 ·1	55 ·2
11. 31	30. 50	8. 22	·1104		·01733			
11. 52	34. 0	8. 53	·1106	19. 0	·01781			
	***	9. 27	·1101	21. 19	·01736			
13. 1	32. 45	10. 41	·1120	22. 45	·01700			
	***	11. 9	·1105	23. 46	·01562			
14. 15	34. 50	12. 23	·1106	23. 59	·01554			
	***	12. 54	·1117					
15. 44	32. 0	13. 39	·1114					
	***	14. 29	·1118					
16. 38	34. 0	15. 17	·1114					
	***	15. 54	·1118					
18. 24	32. 20	16. 54	·1114					
	***	20. 0	·1118					
19. 22	32. 50	23. 48	·1103					
20. 42	32. 20							
23. 13	37. 0							
23. 59	39. 35							
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 0	21. 39. 35	1. 0	·1107	1. 15	·01541	1. 40	55 ·3	56 ·8
1. 34	44. 20	4. 32	·1099	1. 46	·01508	3. 40	57 ·0	58 ·7
2. 39	44. 0	6. 40	·1111	1. 54	·01463	9. 40	59 ·1	60 ·2
2. 54	43. 40	7. 0	·1101	2. 35	·01387	21. 40	54 ·6	55 ·6
3. 10	44. 10	8. 6	·1114	3. 25	·01295			
4. 30	40. 0	8. 12	·1105	4. 58	·01063			
4. 54	40. 0	8. 52	·1104		·01061			
5. 18	38. 30	9. 7	·1110	7. 8	·01016			
6. 40	37. 0	9. 41	·1106	9. 6	·01020			
7. 14	32. 40	11. 15	·1111	10. 51	·01133			
7. 30	33. 30	11. 24	·1115	15. 30	·01524			
7. 52	29. 10	11. 44	·1112	19. 5	·01753			
8. 12	33. 10	12. 0	·1119	21. 15	·01840			
9. 10	35. 55	12. 39	·1111	21. 38	·01777			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 7		Apr. 7		Apr. 7				
h m	° ′ ″	h m		h m		h m	°	°
9. 43	21. 35. 10	16. 11	·1116	23. 59	·01637			
10. 0	36. 5	17. 27	·1111					
10. 23	35. 40	19. 30	·1120					
11. 27	36. 0	21. 48	·1103					
11. 42	35. 5	23. 0	·1090					
11. 59	35. 30	23. 24	·1089					
12. 24	34. 0	23. 59	·1092					
13. 0	35. 30							
15. 9	35. 30							
15. 15	36. 20							
15. 22	35. 20							
16. 15	35. 25							
16. 52	34. 50							
17. 45	35. 50							
20. 29	31. 0							
22. 24	34. 30							
23. 59	42. 30							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 0	21. 42. 30	0. 0	·1092	0. 19	·01608	1. 40	57 ·8	58 ·8
0. 54	44. 0	4. 18	·1111	0. 53	·01594	3. 40	59 ·8	61 ·3
1. 0	45. 0	4. 41	·1105	1. 6	·01520	9. 40	60 ·1	60 ·8
1. 42	45. 0	5. 32	·1108	2. 10	·01407	21. 40	53 ·6	54 ·8
3. 24	40. 0	6. 10	·1104	4. 14	{·01033			
4. 30	37. 35	6. 55	·1108		{·01083			
6. 32	35. 10		***	5. 50	·01040			
7. 28	35. 30	11. 2	·1110	8. 5	·01116			
7. 45	34. 35		***	10. 19	·01214			
9. 26	36. 20	11. 13	·1114	13. 55	·01569			
9. 45	32. 30		***	16. 39	·01794			
	***	11. 36	·1109	19. 24	·01978			
14. 28	35. 30		***	22. 0	·01940			
14. 36	34. 20	12. 6	·1112	23. 53	·01849			
14. 46	36. 0		***					
15. 0	35. 20	12. 17	·1109					
15. 12	36. 40		***					
15. 27	36. 50	13. 13	·1114					
16. 22	35. 30		***					
	***	13. 24	·1118					
17. 11	34. 5		***					
17. 22	32. 50	14. 40	·1119					
	***	14. 45	·1114					
17. 36	31. 25	14. 55	·1118					
17. 43	32. 30	15. 0	·1120					
	***	15. 12	·1115					
18. 45	32. 0	15. 23	·1122					
	***	15. 30	·1117					
19. 39	29. 30	15. 39	·1122					
21. 28	35. 0	16. 8	·1120					
22. 44	40. 35		***					
		17. 17	·1124					
			***					
		17. 40	·1118					
		18. 6	·1123					
		19. 45	·1114					
			***					
		20. 7	·1115					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Apr. 8						
h m	° ′ ″	h m		h m		h m	°	°
		21. 54	·1099					
			***					
		22. 51	·1102					
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 0	21. 40. 30	0. 13	·1102	0. 0	·01855	1. 40	55 ·3	56 ·7
0. 53	43. 0		***	2. 19	·01718	3. 40	57 ·2	58 ·6
1. 42	42. 50	4. 55	·1123	3. 50	·01546	9. 40	60 ·6	61 ·0
3. 10	39. 20		***	6. 10	·01202	23. 22	51 ·8	53 ·2
	***	6. 28	·1116	8. 0	·00990			
5. 31	35. 0		***	8. 48	·00957			
8. 24	34. 0	7. 0	·1119	10. 36	·00954			
	***		***	13. 33	·01115			
14. 5	36. 10	8. 7	·1113	15. 15	·01264			
14. 16	40. 30		***		{·01927			
15. 14	34. 40	8. 13	·1116	20. 5	{·01895			
	***		***	22. 10	·01900			
15. 44	34. 25	9. 16	·1128	23. 36	·01805			
	***	9. 30	·1120					
16. 13	35. 0	9. 45	·1126					
16. 24	33. 30	13. 39	·1114					
16. 31	34. 40		***					
16. 42	34. 20	14. 10	·1122					
16. 45	35. 10		***					
16. 49	34. 0	14. 32	·1116					
17. 0	35. 50		***					
	***	14. 43	·1124					
18. 24	36. 0		***					
18. 53	38. 10	15. 24	·1119					
19. 15	34. 15	15. 52	·1120					
19. 20	35. 0	16. 23	·1126					
19. 44	32. 30		***					
20. 0	32. 30	17. 13	·1116					
20. 25	31. 30	17. 34	·1129					
21. 3	31. 30	18. 40	·1117					
22. 52	34. 10	18. 55	·1121					
23. 59	38. 0	19. 43	·1118					
		20. 6	·1121					
		21. 39	·1105					
		22. 6	·1103					
		22. 48	·1097					
		23. 59	·1101					
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 0	21. 38. 0	0. 0	·1101	0. 0	·01794	8. 2	57 ·0	57 ·8
	***	0. 7	·1103	2. 25	·01735	21. 40	53 ·6	55 ·2
1. 40:	40. 50	1. 15	·1095	3. 41	·01656			
5. 0	35. 20		***	7. 30	·01180			
5. 36	33. 55	3. 24	·1111	8. 16	·01117			
6. 56	32. 30		***	9. 10	·01068			
7. 44	32. 20	4. 7	·1110	11. 0	·01060			
8. 3	29. 30	4. 32	·1106	15. 12	·01194			
8. 54	32. 30	5. 0	·1109	20. 51	·01536			
10. 0	33. 20	5. 24	·1104	23. 59	·01695			
	***	6. 17	·1114					
11. 12	33. 0	6. 38	·1112					
11. 30	34. 0	7. 23	·1114					
12. 52	33. 45	7. 42	·1113					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 10		Apr. 10						
h m	° ′ ″	h m		h m		h m	°	°
13. 22	21. 37. 0	7. 54	·1109					
13. 44	35. 30	10. 9	·1116					
14. 12	34. 40		***					
14. 22	35. 0	10. 17	·1121					
14. 42	33. 30		***					
15. 0	36. 50	10. 34	·1111					
15. 30	32. 30	10. 50	·1118					
16. 20	36. 0		***					
16. 43	35. 0	11. 33	·1115					
17. 28	35. 10	12. 20	·1122					
17. 43	37. 35	12. 30	·1118					
18. 9	37. 30	14. 27	·1136					
18. 38	34. 30	15. 0	·1122					
19. 5	33. 50	16. 5	·1112					
19. 18	32. 30	17. 10	·1121					
19. 59	32. 30	17. 35	·1116					
20. 14	31. 0	18. 15	·1124					
20. 30	32. 40	18. 28	·1120					
20. 43	32. 10	18. 45	·1122					
20. 56	34. 0	20. 10	·1118					
21. 27	35. 30	20. 26	·1122					
22. 13	39. 10	21. 24	·1109					
22. 43	38. 40	21. 39	·1111					
23. 59	41. 30	23. 59	·1091					
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 0	21. 41. 30	0. 0	·1091	0. 54	·01723	1. 40	53 ·6	54 ·8
2. 31	41. 30	2. 54	·1103	3. 45	·01846*	3. 40	54 ·0	54 ·8
	***	3. 7	·1100	4. 18	·01724	9. 40	51 ·9	51 ·6
4. 15	39. 0	3. 24	·1104	6. 49	·01640	22. 6	45 ·0	47 ·5
4. 43	39. 30	4. 6	·1093	7. 50	·01684			
5. 39	36. 50	4. 29	·1099	8. 39	·01680			
6. 50	35. 30	4. 54	·1098	10. 36	·01722			
7. 13	31. 0	5. 40	·1104	11. 50	·01805			
7. 24	32. 0	6. 28	·1101	12. 26	·01844			
7. 36	31. 0	7. 13	·1114		·01780			
7. 44	31. 50	7. 55	·1087	15. 30	·01822			
7. 55	30. 30	8. 21	·1100	15. 41	·01791			
8. 13	33. 20	10. 12	·1108	17. 0	·01778			
9. 16	36. 30	11. 11	·1106	17. 36	·01754			
9. 30	35. 5	11. 26	·1114	21. 24	·01720			
10. 22	36. 20		***	22. 22	·01736			
10. 43	36. 0	14. 0	·1115					
11. 12	36. 30		***					
11. 55	34. 40	15. 27	·1122					
	***		***					
16. 12	36. 20	15. 30	·1118					
16. 28	41. 20		***					
16. 52	42. 45	15. 39	·1122					
17. 29	38. 40	15. 54	·1119					
18. 21	47. 0	16. 2	·1122					
18. 47	49. 35	16. 21	·1122					
19. 2	48. 20	16. 38	·1115					
19. 10	48. 20	17. 25	·1132					
19. 17	46. 0	18. 9	·1118					
	***	18. 40	·1116					
20. 23	39. 20	19. 0	·1124					
	***	19. 30	·1118					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 11		Apr. 11						
h m	° ′ ″	h m		h m		h m	°	°
21. 12	21. 48. 30	19. 42	·1120					
21. 31	44. 30	20. 47	·1082					
21. 57	42. 30	21. 8	·1103					
	***	21. 17	·1102					
23. 6	44. 30	23. 2	·1086					
23. 41	42. 45	23. 27	·1074					
23. 52	43. 30	23. 59	·1084					
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 11	21. 47. 30	0. 0	·1084	0. 0	·01715	7. 23	49 ·4	52 ·4
	***		***	3. 6	·01653	12. 40	47 ·3	49 ·7
1. 43	51. 30	0. 11	·1086	4. 0	·01534	13. 40	47 ·0	49 ·5
1. 52	49. 0		***	6. 18	·01515	14. 40	46 ·7	49 ·2
2. 4	51. 50	0. 17	·1079	8. 43	·01383	15. 40	46 ·6	49 ·0
2. 11	49. 40	1. 5	·1077	9. 18	·01377	16. 40	46 ·6	49 ·1
2. 27	50. 30	1. 40	·1092	10. 0	·01400	17. 40	46 ·3	48 ·8
2. 41	52. 5	1. 49	·1085	11. 22	·01360	18. 40	45 ·8	48 ·5
2. 44	49. 30	2. 5	·1096	14. 39	·01628	19. 40	45 ·7	48 ·4
2. 51	48. 30	2. 10	·1092	19. 40	·01854	20. 40	45 ·2	48 ·0
3. 2	51. 5	2. 20	·1098		·01776	21. 40	46 ·1	47 ·7
3. 13	46. 30	2. 41	·1104	23. 19	·01790	22. 40	45 ·2	47 ·7
3. 37	50. 50	2. 46	·1098			23. 40	45 ·8	47 ·9
3. 44	48. 30	3. 0	·1115					
4. 0	48. 20	3. 9	·1115					
4. 9	49. 0	3. 14	·1107					
4. 16	48. 30	3. 27	·1121					
4. 24	48. 45		***					
4. 39	47. 0	3. 35	·1118					
4. 48	48. 55		***					
5. 41	41. 20	3. 41	·1110					
5. 46	41. 30		***					
6. 30	38. 0	3. 45	·1115					
6. 40	38. 30		***					
7. 0	36. 20	4. 9	·1110					
7. 12	35. 40		***					
7. 29	27. 30	4. 32	·1111					
7. 40	29. 0		***					
7. 46	27. 30	4. 46	·1117					
8. 17	32. 25		***					
8. 30	38. 30	5. 16	·1100					
8. 43	33. 30	5. 37	·1108					
8. 50	38. 50	5. 51	·1104					
8. 56	37. 30	6. 0	·1114					
9. 2	38. 40	6. 26	·1108					
9. 28	32. 45	6. 38	·1114					
9. 39	33. 5	6. 46	·1111					
9. 48	36. 30	7. 15	·1118					
10. 11	27. 0	7. 28	·1106					
10. 16	29. 20	7. 32	·1117					
10. 24	27. 30	7. 52	·1118					
11. 12	30. 50	8. 17	·1114					
11. 18	32. 0	8. 25	·1121					
11. 36	29. 0	8. 39	·1108					
11. 48	29. 10	8. 43	·1128					
12. 15	33. 0	8. 55	·1110					
12. 39	30. 30	8. 58	·1118					
12. 45	31. 10	9. 25	·1114					
13. 18	30. 10	9. 32	·1118					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 8. The times, both for the Declination and Horizontal Force Traces, of this day are liable to some uncertainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12		Apr. 12						
h m	° ′ ″	h m		h m		h m	°	°
13. 45	21. 31. 30	9. 42	·1113					
13. 59	31. 0	9. 54	·1116					
14. 40	32. 10	9. 58	·1122					
15. 0	38. 0	10. 11	·1107					
15. 11	38. 40	10. 28	·1146					
15. 22	38. 0	10. 41	·1142					
16. 2	33. 15	10. 51	·1152					
	***	11. 3	·1131					
16. 54	32. 45	11. 9	·1131					
	***	11. 23	·1118					
17. 22	33. 30	11. 30	·1122					
17. 50	32. 50	12. 25	·1119					
	***	12. 41	·1123					
18. 15	33. 30	14. 45	·1119					
	***	15. 0	·1110					
18. 48	32. 15	15. 22	·1121					
	***	15. 48	·1124					
19. 44	33. 50		***					
	***	17. 12	·1122					
20. 4	33. 30	17. 30	·1126					
	***	18. 8	·1120					
23. 30	40. 0	19. 9	·1126					
23. 59	40. 35	19. 52	·1117					
		20. 7	·1119					
		20. 51	·1115					
		21. 24	·1101					
		23. 35	·1101					
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 0	21. 40. 35	0. 43	·1105	0. 0	·01360	0. 40	46 ·1	48 ·2
0. 40	43. 30	1. 45	·1106	2. 19	·01360	1. 40	47 ·1	49 ·0
1. 4	44. 40	2. 18	·1118	5. 10	·01206	2. 40	48 ·1	49 ·2
1. 52	43. 20	2. 37	·1111	8. 37	·01021	3. 40	47 ·9	50 ·1
2. 29	45. 0	2. 45	·1126	8. 53	·00973	4. 40	50 ·5	51 ·5
2. 43	43. 0	3. 6	·1115	10. 52	·00949	5. 40	50 ·5	51 ·5
2. 50	45. 0	3. 27	·1120	11. 9	·00935	6. 40	50 ·6	51 ·2
3. 11	43. 30	3. 40	·1112	12. 54	·00976	7. 40	50 ·8	51 ·5
3. 15	43. 55	4. 6	·1131	18. 10	·01235	8. 40	50 ·8	51 ·3
3. 44	42. 20	4. 52	·1126		·01166	9. 40	50 ·2	51 ·8
4. 10	37. 25	5. 0	·1117	19. 11	·01205	10. 40	50 ·2	51 ·8
4. 47	40. 30	5. 29	·1125	21. 53	·01175	11. 40	50 ·0	51 ·7
5. 0	39. 30	5. 58	·1126	23. 59	·01086	21. 40	45 ·7	47 ·3
5. 12	39. 35	6. 7	·1123					
5. 29	38. 0	6. 13	·1128					
	***	6. 36	·1129					
5. 59	38. 0	6. 43	·1124					
6. 12	37. 10	6. 49	·1130					
6. 17	37. 30	6. 57	·1124					
6. 49	34. 55	7. 7	·1128					
7. 0	36. 0	7. 32	·1114					
7. 10	35. 30	8. 0	·1128					
7. 15	36. 0	8. 20	·1114					
7. 59	29. 30	8. 37	·1139					
8. 11	33. 10	8. 46	·1122					
8. 21	32. 5	9. 0	·1122					
8. 36	28. 0	9. 8	·1116					
8. 50	36. 40	9. 27	·1113					
9. 7	33. 20	9. 39	·1120					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 13		Apr. 13						
h m	° ′ ″	h m		h m		h m	°	°
9. 12	21. 33. 50	10. 0	·1112					
9. 38	29. 40	10. 24	·1126					
9. 52	31. 40	10. 31	·1122					
10. 14	26. 35	10. 57	·1118					
10. 30	28. 0	11. 16	·1128					
10. 45	23. 35	11. 35	·1120					
10. 58	26. 30	12. 7	·1117					
11. 10	20. 30	17. 35	·1133					
11. 37	28. 30	20. 12	·1130					
12. 30	31. 50	23. 46	·1111					
12. 49	31. 35							
13. 14	32. 0							
13. 24	32. 55							
13. 42	32. 40							
13. 57	33. 20							
14. 27	32. 50							
16. 0	34. 0							
17. 30	33. 20							
17. 40	33. 40							
18. 43	32. 30							
18. 53	33. 30							
19. 3	32. 50							
	***							
19. 32	32. 30							
	***							
21. 12	32. 40							
21. 57	34. 45							
23. 59	39. 40							
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 0	21. 39. 40	0. 0	·1112	1. 0	·01037	1. 40	49 ·0	50 ·2
	***	2. 0	·1116	2. 40	·00936	3. 40	51 ·3	53 ·2
2. 30	42. 30	2. 45	·1112	4. 0	·00822	9. 40	54 ·1	54 ·2
2. 40	41. 20	4. 21	·1119	6. 26	·00837	21. 40	45 ·6	47 ·3
5. 41:	34. 5	5. 12	·1116	8. 21	·00824			
7. 30	33. 40	7. 7	·1111	11. 35	·00909			
7. 45	33. 0	8. 0	·1116	15. 30	·01167			
8. 10	33. 20	8. 12	·1117	20. 21	·01694			
8. 24	34. 0	8. 25	·1112	22. 0	·01798			
8. 36	33. 0	15. 14	·1126	23. 59	·01729			
8. 43	33. 30	18. 39	·1137					
10. 0	32. 45	19. 51	·1135					
10. 13	33. 0		***					
10. 38	32. 50	23. 0	·1114					
10. 56	33. 30	23. 59	·1114					
11. 17	32. 50							
12. 30	34. 40							
13. 13	34. 30							
14. 45	36. 35							
15. 21	38. 0							
15. 58	37. 0							
17. 0	37. 5							
18. 43	35. 0							
19. 5	33. 50							
20. 19	32. 35							
20. 45	31. 30							
22. 45	35. 30							
23. 59	39. 40							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 40	0. 0	·1114	0. 39	·01706	1. 40	49 ·8	50 ·8
1. 9	42. 30	1. 51	·1112	3. 0	·01515	3. 40	52 ·3	52 ·8
1. 28	42. 15	2. 40	·1121	5. 24	·01197	9. 40	54 ·1	54 ·8
2. 13	42. 30	3. 32	·1119	8. 0	·00984	21. 40	45 ·2	47 ·7
3. 44	39. 0	3. 58	·1129	8. 55	·00955			
3. 55	39. 55		***	10. 11	·00974			
4. 19	38. 40	4. 12	·1121	15. 50	·01376			
5. 4	37. 30	5. 6	·1122	18. 54	·01700			
5. 15	36. 30	5. 13	·1113	20. 28	·01816			
6. 30	34. 10	5. 27	·1117	22. 6	·01812			
7. 45	34. 45	5. 41	·1116	23. 38	·01823			
12. 41	34. 35	6. 10	·1122					
13. 2	35. 35	6. 32	·1117					
13. 48	35. 0		***					
13. 52	37. 35	8. 20	·1129					
14. 26	36. 30		***					
14. 45	34. 30	8. 53	·1122					
15. 14	37. 50		***					
15. 47	34. 20	9. 7	·1126					
16. 1	34. 30		***					
16. 27	33. 30	9. 40	·1118					
16. 39	34. 30		***					
17. 0	33. 50	10. 3	·1123					
	***	13. 26	·1128					
17. 43	34. 25	14. 43	·1134					
	***		***					
18. 39	32. 50	15. 8	·1128					
	***	15. 15	·1135					
18. 45	33. 30	16. 26	·1132					
	***	16. 52	·1135					
19. 10	33. 0	17. 41	·1134					
19. 21	33. 35	18. 38	·1141					
19. 30	33. 0	19. 24	·1135					
20. 15	36. 0	19. 53	·1123					
20. 27	37. 50		***					
20. 41	36. 15	21. 2	·1125					
21. 13	34. 20		***					
21. 59	34. 0	22. 45	·1114					
23. 22	37. 30	23. 59	·1114					
23. 29	37. 20							
23. 45	38. 30							
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
0. 19	21. 39. 10	0. 0	·1114	0. 0	·01700	1. 40	49 ·0	50 ·6
1. 15	40. 50		***	2. 4	·01583	3. 40	52 ·0	52 ·8
1. 25	40. 30	5. 22	·1126	3. 24	·01444	9. 46	55 ·0	56 ·4
1. 43	40. 50		***	5. 10	·01174	21. 40	47 ·0	48 ·6
2. 0	39. 35	6. 13	·1120	8. 0	·00886			
3. 40	37. 30	7. 39	·1123	8. 55	·00849			
6. 26	34. 30		***	12. 54	·00955			
8. 22	34. 20	9. 58	·1116	16. 6	·01180			
8. 48	33. 50		***	20. 30	·01637			
9. 2	34. 20	10. 55	·1118	21. 9	·01677			
9. 34	34. 0		***	21. 45	·01678			
10. 3	32. 25	12. 7	·1115	23. 59	·01463			
10. 26	32. 20	14. 0	·1122					
10. 58	33. 30	19. 25	·1133					
12. 25	35. 20	23. 6	·1122					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 16		Apr. 16						
h m	° ′ ″	h m		h m		h m	°	°
13. 0	21. 34. 40	23. 59	·1114					
13. 22	36. 30							
14. 13	34. 30							
16. 10	34. 20							
16. 24	35. 0							
19. 32	32. 10							
19. 58	32. 15							
20. 11	31. 30							
20. 30	32. 50							
20. 45	32. 35							
20. 58	33. 20							
21. 26	33. 30							
23. 20	36. 30							
23. 40	38. 0							
23. 59	38. 30							
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	21. 38. 30	0. 0	·1114	1. 0	·01385	1. 40	51 ·0	52 ·6
1. 40	40. 5		***	3. 46	·01074	3. 40	54 ·2	54 ·8
1. 54	39. 40	3. 36	·1118		·01454	9. 40	59 ·5	58 ·5
2. 23	40. 0		***	6. 25	·01117	21. 40	53 ·5	54 ·7
3. 0	38. 0	4. 54	·1112	13. 34	·01141			
4. 41	37. 0		***	17. 0	·01323			
7. 15	34. 30	5. 6	·1114	21. 5	·01656			
	***	5. 31	·1112	22. 53	·01681			
11. 29	34. 0	8. 36	·1117					
11. 35	34. 40	8. 44	·1114					
11. 46	33. 50	8. 52	·1118					
11. 58	34. 20	9. 2	·1114					
12. 29	33. 0	9. 10	·1116					
12. 42	33. 45	9. 47	·1112					
12. 54	33. 5	10. 0	·1117					
13. 13	34. 0	10. 11	·1111					
13. 42	33. 20	10. 36	·1116					
14. 19	33. 25	11. 5	·1110					
14. 27	34. 0	11. 52	·1118					
14. 44	33. 0	12. 30	·1116					
16. 0	33. 35	13. 0	·1122					
16. 57	32. 0	13. 8	·1127					
	***	13. 24	·1128					
17. 36	33. 30	14. 20	·1114					
17. 43	33. 10	15. 36	·1114					
	***	16. 52	·1119					
20. 35	33. 0	17. 35	·1116					
20. 46	32. 30	19. 7	·1120					
21. 20	32. 35	21. 0	·1114					
21. 36	33. 35	21. 22	·1111					
	***	21. 40	·1103					
23. 43	34. 55		***					
		22. 22	·1107					
			***					
		23. 59	·1102					
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
0. 23	21. 37. 20	0. 0	·1102	0. 0	·01812	1. 40	59 ·1	59 ·8
1. 24	38. 40	0. 27	·1100	1. 15	·01644	3. 40	62 ·5	62 ·8
1. 59	38. 0	1. 6	·1104	3. 6	·01383	9. 40	64 ·8	66 ·2
2. 12	38. 30		***		·01363	23. 0	59 ·0	60 ·0
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 17 and 18. The times are liable to an error of a few minutes.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 18		Apr. 18		Apr. 18				
h m	° ′ ″	h m		h m		° m	°	°
3. 0	21. 36. 50	3. 10	·1082	4. 38	{·01346			
3. 9	37. 20		***		{·01405			
3. 17	36. 40	3. 37	·1060	8. 35	·01426			
3. 36	37. 0		***	13. 35	·01697			
3. 52	36. 20	3. 50	·1063	17. 26	·02081			
4. 14	36. 30	4. 17	·1055	19. 35	·02057			
5. 25	35. 0	6. 7	·1064	23. 0	·02061			
6. 42	33. 0	6. 16	·1058					
7. 25	33. 50	6. 26	·1066					
7. 45	32. 50	6. 38	·1062					
7. 57	33. 30		***					
8. 23	32. 30	6. 43	·1067					
8. 28	33. 0		***					
9. 20	33. 30	7. 0	·1063					
9. 37	32. 40		***					
9. 54	33. 40	7. 22	·1067					
10. 30	34. 35		***					
16. 45	34. 30	7. 54	·1063					
19. 48	32. 30		***					
20. 15	31. 40	8. 17	·1067					
21. 10	31. 55		***					
23. 10	36. 30	8. 33	·1065					
23. 59	37. 30	11. 0	·1076					
		19. 39	·1094					
		23. 59	·1072					
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
0. 0	21. 37. 30	0. 0	·1072	0. 0	·01982	9. 50	64 ·5	66 ·0
0. 34	38. 30		***	2. 21	·01755	12. 40	62 ·0	63 ·0
1. 1	38. 30	4. 58	·1074	5. 22	·01291	13. 40	61 ·3	62 ·3
2. 8	38. 45		***	7. 0	·01236	14. 40	60 ·8	61 ·5
7. 10	33. 30	6. 11	·1068	7. 46	·01282	15. 40	60 ·2	60 ·6
8. 41	34. 0	6. 38	·1075	8. 54	·01356	16. 40	59 ·8	60 ·4
9. 27	33. 10	6. 47	·1071	15. 20	{·02096	17. 40	59 ·4	60 ·0
9. 54	31. 20	7. 6	·1074		{·02038	18. 40	59 ·0	59 ·6
10. 29	32. 30		***	15. 37	{·02067	19. 40	58 ·5	59 ·0
10. 52	32. 30	9. 47	·1064		{·01935	20. 40	58 ·5	58 ·6
11. 6	33. 30	11. 0	·1072	18. 49	{·02017	21. 40	58 ·5	58 ·5
12. 16	34. 20	11. 45	·1075		{·01463	22. 40	59 ·1	59 ·2
13. 8	34. 50	12. 2	·1079	20. 35	·01615	23. 40	59 ·5	60 ·2
13. 53	34. 30	16. 51	·1081	23. 59	·01496			
14. 10	34. 50	19. 21	·1087					
14. 32	34. 30	21. 34	·1074					
15. 52	34. 5	23. 59	·1067					
16. 23	33. 50							
17. 21	33. 50							
18. 55	33. 5							
	(†)							
21. 40	33. 10							
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 0	21. 38. 0	0. 0	·1067	0. 45	·01415	0. 40	60 ·3	61 ·4
1. 0	38. 30		***	3. 20	·01193	1. 40	61 ·3	62 ·2
2. 38	38. 40	1. 56	·1069	5. 5	·01215	2. 40	62 ·6	63 ·7
3. 26	37. 40		***	8. 21	·01433	3. 40	63 ·5	65 ·2
6. 50	33. 35	2. 50	·1076	10. 54	·01530	4. 40	64 ·2	66 ·2
	***		***	15. 37	·02087	5. 40	65 ·0	66 ·0
11. 26	35. 30	3. 45	·1073	17. 0	·02041	6. 40	65 ·2	67 ·0
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
h m	° ′ ″	h m		h m		h m	°	°
16. 48	21. 36. 0	5. 52	·1072	23. 59	·01932	7. 40	65 ·0	67 ·0
	***		***			8. 40	64 ·7	66 ·8
20. 7	32. 10	6. 0	·1054			9. 40	63 ·5	65 ·1
20. 48	32. 20		***			10. 40	62 ·8	64 ·8
21. 36	33. 40	9. 25	·1058			11. 40	62 ·0	64 ·8
21. 57	35. 0		***			21. 40	53 ·6	55 ·2
23. 59	39. 25	15. 54	·1079					
			***					
		19. 33	·1088					
			***					
		22. 20	·1078					
			***					
		23. 59	·1080					
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 0	21. 39. 25	0. 0	·1080	0. 37	·01920	1. 40	55 ·4	56 ·9
	***		***	3. 10	·01783	3. 40	57 ·0	58 ·8
2. 10	41. 45	2. 45	·1076	5. 15	·01605	9. 40	58 ·2	61 ·5
3. 36	38. 20		***	10. 6	·01584	21. 40	52 ·8	55 ·2
	***	3. 9	·1077	11. 24	·01626			
5. 8	36. 50		***	16. 18	·01963			
5. 12	37. 15	3. 30	·1072	17. 20	·01995			
	***		***	20. 35	·01980			
7. 37	35. 0	3. 45	·1075	23. 31	·01896			
8. 0	32. 30		***					
8. 9	33. 25	4. 22	·1074					
8. 18	32. 50	4. 30	·1067					
	***	4. 52	·1069					
8. 47	34. 30	5. 8	·1076					
9. 10	32. 50	5. 30	·1078					
10. 27	33. 40	6. 13	·1074					
10. 39	34. 35	7. 14	·1086					
10. 56	34. 35	7. 42	·1075					
11. 9	35. 30	7. 48	·1081					
12. 1	34. 25	8. 7	·1072					
13. 8	26. 20	8. 29	·1074					
14. 33	36. 0	8. 47	·1070					
15. 29	36. 30	9. 7	·1075					
15. 46	35. 0	10. 10	·1080					
16. 13	35. 30	10. 22	·1084					
17. 13	34. 50	10. 38	·1079					
18. 15	35. 0	10. 46	·1083					
	***	11. 41	·1082					
20. 20	33. 40	11. 58	·1092					
	***	12. 24	·1091					
21. 31	35. 30	12. 54	·1094					
23. 43	42. 20	13. 39	·1079					
		15. 23	·1088					
		15. 36	·1085					
		19. 10	·1091					
		22. 30	·1089					
		23. 59	·1086					
Apr. 22		Apr. 22		Apr. 22		Apr. 22		
0. 15	21. 41. 30	0. 0	·1086	0. 0	·01902	1. 40	54 ·0	56 ·0
	***	0. 18	·1088	1. 0	·01871	3. 40	55 ·4	57 ·0
1. 25	44. 55	0. 41	·1085	2. 25	·01839	9. 40	55 ·4	57 ·4
1. 40	43. 50	1. 9	·1089	6. 19	·01712	21. 40	49 ·7	52 ·7

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 22		Apr. 22		Apr. 22				
h m	° ′ ″	h m		h m		h m		
2. 2	21. 44. 40	1. 22	·1086	8. 5	·01687			
2. 12	44. 0	2. 7	·1086	10. 48	·01716			
2. 22	44. 30	2. 55	·1083		·01688			
3. 14	41. 35	3. 22	·1086	21. 0	·01675			
3. 56	40. 25	3. 36	·1082	23. 51	·01629			
6. 8	38. 40	3. 43	·1084					
6. 43	37. 30	4. 9	·1084					
8. 7	36. 20	5. 45	·1083					
8. 15	35. 30	6. 0	·1089					
8. 28	35. 25	9. 2	·1095					
8. 41	36. 10	9. 8	·1091					
	***	16. 17	·1097					
13. 28	36. 50	16. 42	·1094					
13. 40	37. 25	17. 21	·1097					
13. 54	36. 40	19. 35	·1096					
14. 57	37. 45	19. 44	·1094					
16. 28	36. 0	20. 21	·1096					
16. 45	36. 30	22. 11	·1088					
17. 57	36. 5	23. 59	·1084					
18. 13	36. 0							
18. 54	36. 30							
19. 18	35. 30							
19. 28	36. 30							
19. 36	35. 20							
20. 42	35. 40							
23. 56	42. 50							
Apr. 23		Apr. 23		Apr. 23		Apr. 23		
0. 15	21. 42. 10	0. 0	·1084	0. 34	·01596	1. 40	51 ·0	52 ·8
1. 28	41. 40	3. 22	·1088	3. 38	·01600	3. 40	52 ·4	53 ·6
3. 15	39. 30	4. 30	·1086		·01574	9. 40	53 ·8	54 ·3
4. 0	39. 5	5. 12	·1089	7. 50	·01396	21. 40	45 ·0	45 ·6
4. 35	37. 45	11. 0	·1092	9. 31	·01375			
5. 0	38. 10	11. 22	·1091	11. 15	·01419			
7. 5	37. 0	12. 43	·1097	16. 17	·01867			
11. 0	36. 30	13. 7	·1101		·01823			
12. 32	37. 30	13. 26	·1099	18. 30	·01850			
12. 46	37. 10	13. 52	·1101	19. 53	·01846			
12. 54	37. 30	14. 30	·1098	23. 59	·01718			
13. 15	36. 55	15. 22	·1101					
13. 42	38. 0	20. 26	·1096					
14. 9	37. 0	23. 48	·1084					
14. 47	38. 30							
	***							
15. 15	38. 0							
	***							
19. 13	35. 0							
19. 30	32. 30							
	***							
19. 56	35. 0							
20. 43	33. 40							
23. 29	39. 30							
23. 59	40. 5							
Apr. 24		Apr. 24		Apr. 24		Apr. 24		
0. 0	21. 40. 5	0. 26	·1086	0. 24	·01718	1. 40	48 ·8	50 ·1
2. 28	40. 45	2. 51	·1087	2. 12	·01623	3. 40	51 ·7	52 ·2
3. 15	40. 0		***	3. 30	·01500	9. 40	53 ·5	54 ·3

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 24		Apr. 24		Apr. 24		Apr. 24		
h m	° ′ ″	h m		h m		h m	°	
6. 55	21. 35. 0	4. 7	·1084	5. 45	·01221	21. 40	47 ·7	49 ·5
9. 28	36. 0	4. 21	·1087	6. 54	·01115			
10. 13	23. 5	7. 27	·1085	8. 6	·01054			
10. 22	24. 45	7. 30	·1107	10. 7	·01015			
10. 45	26. 20		***	16. 5	·01284			
10. 57	26. 5	7. 42	·1095	20. 19	·01564			
11. 28	29. 0		***	22. 0	·01616			
11. 52	32. 30	8. 29	·1099	23. 59	·01593			
12. 0	31. 30		***					
	***	8. 40	·1097					
14. 13	37. 45		***					
14. 32	37. 20	9. 40	·1102					
14. 46	37. 30		***					
15. 16	36. 30	9. 52	·1095					
18. 4	35. 0		***					
18. 12	35. 30	10. 43	·1097					
18. 26	34. 30		***					
18. 32	35. 0	10. 47	·1094					
18. 58	34. 0		***					
19. 24	34. 25	11. 8	·1095					
20. 22	32. 30		***					
	***	11. 13	·1088					
21. 11	32. 30		***					
21. 27	32. 55	11. 22	·1088					
23. 28	40. 30	11. 38	·1086					
23. 59	41. 40	11. 43	·1089					
		11. 45	·1079					
		12. 1	·1079					
		12. 11	·1087					
		12. 37	·1089					
		12. 48	·1086					
		13. 13	·1085					
		14. 0	·1088					
		14. 12	·1087					
		14. 36	·1092					
		15. 39	·1091					
		18. 38	·1093					
			***					
		20. 55	·1087					
		22. 0	·1084					
		23. 14	·1082					
		23. 52	·1077					
Apr. 25		Apr. 25		Apr. 25		Apr. 25		
0. 0	21. 41. 40	0. 24	·1078	0. 20	·01592	1. 40	51 ·3	53 ·1
1. 15	42. 0	3. 6	·1084	2. 15	·01507	3. 40	53 ·3	54 ·1
1. 30	41. 0	3. 25	·1081	4. 34	·01337	9. 40	53 ·0	53 ·8
2. 53	39. 40	4. 10	·1087	5. 40	·01226	22. 16	46 ·2	47 ·6
3. 10	40. 0		***	7. 31	·01156			
	***	5. 0	·1075	8. 22	·01149			
5. 15	38. 30		***	10. 20	·01154			
5. 30	36. 10	5. 47	·1081	14. 0	·01373			
6. 14	34. 30	5. 52	·1074	16. 11	·01556			
6. 29	36. 0	6. 6	·1076	20. 35	·01835			
6. 52	35. 0	6. 30	·1071	21. 18	·01840			
7. 45	34. 55	6. 45	·1073	22. 52	·01796			
8. 28	35. 50	6. 51	·1079					
8. 45	35. 30	7. 51	·1084					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

April 19 and 20. The times are liable to an error of a few minutes.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 25		Apr. 25						
h m	° ′ ″	h m		h m		h m	°	°
11. 24	21. 36. 30	8. 12	·1082					
11. 42	35. 35		***					
12. 32	35. 40	8. 22	·1086					
12. 58	33. 50		***					
13. 8	33. 25	9. 11	·1085					
13. 28	38. 10		***					
14. 4	34. 20	9. 28	·1089					
14. 45	37. 20	11. 12	·1094					
15. 12	36. 30	11. 30	·1091					
15. 18	37. 25	12. 0	·1091					
15. 44	36. 20	12. 23	·1094					
16. 27	37. 5	12. 37	·1101					
16. 34	36. 30	13. 2	·1092					
17. 3	37. 30	13. 8	·1093					
17. 16	36. 45	13. 12	·1101					
17. 33	36. 35	13. 32	·1102					
17. 54	37. 15	14. 24	·1091					
	***	14. 47	·1095					
19. 27	35. 0	17. 45	·1096					
19. 30	34. 20		***					
20. 28	33. 0	18. 25	·1094					
20. 40	32. 20		***					
20. 45	32. 45	19. 26	·1100					
	***	21. 52	·1088					
21. 28	33. 5	23. 59	·1084					
21. 45	34. 10							
22. 28	36. 10							
23. 59	40. 20							
Apr. 26		Apr. 26		Apr. 26		Apr. 26		
0. 0	21. 40. 25	0. 0	·1084	0. 0	·01740	7. 40	46·3	48·2
1. 38	45. 10		***	3. 49	·01765	12. 40	46·1	48·7
3. 0	44. 0	3. 52	·1099	9. 6	·01759	13. 40	45·9	48·3
7. 8	35. 25		***	12. 30	·01763	14. 40	45·7	48·0
8. 7	34. 50	4. 7	·1096	13. 25	·01754	15. 40	46·0	48·1
8. 36	35. 30		***	16. 27	{·01764	16. 40	46·6	49·0
9. 2	34. 50	4. 23	·1102		{·01636	17. 40	47·4	49·0
10. 0	35. 50		***	21. 9	·01631	18. 40	47·0	48·0
10. 11	32. 50	4. 34	·1099	23. 59	·01496	19. 40	47·5	48·7
10. 29	32. 30	4. 54	·1104			20. 40	47·5	48·7
10. 51	34. 40		***			21. 40	47·2	48·8
11. 22	35. 25	5. 10	·1101			22. 40	47·7	48·6
11. 43	35. 30	6. 7	·1103			23. 40	48·1	49·2
13. 28	37. 0	9. 41	·1105					
13. 42	36. 50	10. 12	·1114					
14. 6	37. 30	10. 25	·1109					
14. 42	37. 5	10. 39	·1108					
15. 4	38. 0	11. 33	·1112					
15. 25	37. 55	13. 20	·1102					
15. 44	35. 25	15. 9	·1102					
17. 0	36. 20	15. 28	·1106					
	***	16. 39	·1102					
17. 43	35. 0	17. 11	·1108					
	***	17. 31	·1109					
18. 15	34. 50	17. 52	·1100					
18. 26	37. 40	18. 26	·1092					
18. 31	36. 40		***					
18. 58	39. 30	19. 0	·1101					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 26		Apr. 26						
h m	° ′ ″	h m		h m		h m	°	°
19. 24	21. 34. 0	19. 52	·1102					
19. 30	34. 50		***					
20. 24	29. 25	20. 25	·1095					
20. 27	30. 30	21. 30	·1091					
20. 54	30. 0	22. 37	·1085					
22. 22	35. 0	22. 53	·1078					
22. 40	37. 30	23. 35	·1069					
22. 52	37. 50	23. 59	·1073					
23. 15	39. 40							
23. 32	39. 45							
23. 59	40. 50							
Apr. 27		Apr. 27		Apr. 27		Apr. 27		
0. 0	21. 40. 50	0. 0	·1073	0. 50	·01454	0. 40	48·8	49·7
0. 56	40. 10	0. 57	·1072	3. 24	·01327	1. 40	49·6	50·8
1. 7	41. 30	1. 6	·1079	5. 39	·01160	2. 40	50·8	51·9
1. 11	41. 15	1. 10	·1075	6. 47	·01138	3. 40	51·5	52·0
1. 16	41. 50	1. 18	·1078	7. 10	·01147	4. 40	52·1	52·7
2. 14	42. 0	1. 53	·1068	7. 52	·01113	5. 40	52·8	53·0
2. 30	43. 30	2. 35	·1077	14. 9	·01139	6. 40	53·4	53·4
	***		***	15. 30	·01196	7. 40	53·7	53·8
2. 59	43. 0	2. 54	·1072	20. 39	·01530	8. 40	53·2	53·7
3. 30	44. 30	3. 11	·1078	23. 59	·01622	9. 40	53·3	53·7
3. 59	43. 0	3. 24	·1079			10. 40	53·0	53·7
4. 15	42. 40	3. 31	·1084			11. 40	53·0	53·8
4. 42	41. 40		***			21. 40	48·0	50·2
4. 54	41. 50	3. 40	·1076					
5. 9	40. 55		***					
5. 12	41. 5	4. 25	·1072					
5. 16	40. 30	4. 36	·1069					
5. 27	41. 50	4. 55	·1076					
5. 30	40. 40	5. 4	·1072					
5. 38	41. 10	5. 14	·1080					
5. 42	40. 15	5. 22	·1077					
5. 49	40. 50	5. 28	·1086					
6. 31	38. 40	5. 32	·1076					
6. 54	38. 25	5. 34	·1084					
7. 12	29. 30	5. 39	·1078					
7. 26	27. 10	5. 45	·1082					
7. 40	30. 50	5. 54	·1079					
7. 51	29. 0	6. 4	·1083					
8. 0	28. 40	6. 26	·1088					
8. 16	26. 30	6. 52	·1075					
8. 33	27. 30	7. 6	·1079					
8. 52	32. 20	7. 11	·1092					
9. 11	31. 50	7. 22	·1092					
9. 14	32. 25	7. 29	·1103					
9. 24	32. 25	7. 40	·1082					
9. 41	33. 30	8. 0	·1076					
9. 46	32. 30	8. 21	·1082					
10. 30	34. 30	8. 52	·1073					
10. 52	32. 45	9. 8	·1077					
11. 11	33. 0	9. 45	·1076					
11. 26	32. 40	10. 2	·1079					
11. 50	34. 0	10. 10	·1085					
12. 27	33. 30	10. 24	·1080					
13. 7	36. 30	10. 29	·1084					
13. 23	35. 30	10. 37	·1080					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Apr. 27	
h m	° ′ ″
13. 45	21. 37. 40
14. 1	36. 30
14. 10	36. 50
14. 24	34. 30
14. 33	36. 30
14. 40	36. 20
15. 11	37. 40
15. 30	35. 30
15. 52	35. 30
16. 3	36. 20
16. 30	34. 30
17. 11	36. 50
17. 54	36. 0
18. 9	34. 10
18. 15	35. 50
18. 22	34. 45
18. 29	35. 40
18. 40	33. 30
18. 45	34. 40
20. 18:	32. 30
21. 40	33. 30
21. 48	32. 10
22. 0	33. 30
22. 51	34. 15
23. 28	36. 30
23. 55	39. 30
23. 59	38. 40
Apr. 28	
0. 0	21. 38. 40
0. 9	36. 45
1. 1	42. 30
1. 26	43. 0
2. 26	42. 0
	***
4. 23	38. 40
6. 0	37. 40
6. 44	36. 0
7. 45	35. 30
8. 12	34. 30
9. 10	34. 0
9. 51	31. 10
10. 5	32. 25
10. 41	26. 50
11. 11	31. 30
11. 58	32. 20
12. 54	36. 30
13. 19	35. 30
	***
15. 0	35. 40
15. 15	35. 5
15. 28	35. 50
15. 45	35. 10
	***
16. 29	35. 5
16. 44	36. 30
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 27	
h m	
10. 52	·1079
11. 13	·1082
11. 32	·1079
12. 0	·1083
12. 16	·1081
12. 39	·1085
12. 47	·1083
13. 0	·1086
13. 4	·1091
13. 21	·1084
13. 30	·1091
13. 39	·1093
13. 57	·1090
14. 7	·1093
14. 20	·1090
14. 26	·1092
	***
14. 32	·1090
	***
16. 18	·1090
	***
16. 34	·1086
	***
19. 30	·1091
21. 39	·1081
23. 36	·1076
23. 44	·1082
23. 59	·1071
Apr. 28	
0. 35	·1071
0. 56	·1078
1. 15	·1075
1. 21	·1079
1. 40	·1076
2. 23	·1058
3. 0	·1074
3. 15	·1066
3. 25	·1073
3. 54	·1070
4. 20	·1078
4. 45	·1077
5. 35	·1087
6. 0	·1085
6. 7	·1090
7. 4	·1086
7. 36	·1092
7. 45	·1088
7. 57	·1091
9. 30	·1086
10. 9	·1092
	***
10. 23	·1091
	***
10. 34	·1101
	***
10. 54	·1100
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 28	
h m	
0. 17	·01620
1. 25	·01623
2. 54	·01595
6. 56	·01288
8. 19	·01216
	·01260
9. 5	·01060
13. 27	·01384
19. 24	·01817
21. 39	·01835
	·01343
23. 52	·01319

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 28		
h m	°	°
1. 40	50 ·0	52 ·0
3. 40	52 ·0	52 ·8
9. 40	53 ·1	53 ·9
21. 40	46 ·6	48 ·1

Göttingen Mean Solar Time.	Western Declination.
Apr. 28	
h m	° ′ ″
17. 44	21. 34. 0
	***
18. 21	36. 20
18. 30	35. 0
	***
19. 13	38. 30
	***
19. 28	37. 30
	***
19. 45	38. 25
	***
20. 5	36. 50
	***
20. 26	38. 30
	***
20. 30	37. 30
	***
20. 54	39. 0
21. 5	37. 30
	***
21. 15	38. 0
21. 32	39. 40
21. 53	38. 0
	***
23. 59	38. 30
Apr. 29	
0. 0	21. 38. 30
	***
1. 22	38. 30
	***
5. 27	36. 20
5. 52	37. 0
6. 26	36. 20
7. 12	36. 30
7. 30	35. 30
7. 57	35. 40
8. 20	35. 30
9. 40	36. 30
10. 19	34. 5
11. 12	34. 50
11. 40	36. 10
13. 0	36. 30
13. 14	36. 0
13. 26	37. 5
14. 0	36. 20
14. 25	37. 0
	***
15. 22	36. 40
16. 0	38. 0
17. 2	36. 30
18. 28	36. 30
18. 41	35. 45
18. 54	36. 20
20. 59	35. 10
22. 40	38. 0
23. 59	39. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Apr. 28	
h m	
11. 39	·1090
	***
18. 15	·1098
	***
18. 50	·1092
	***
20. 0	·1092
	***
20. 30	·1085
	***
21. 38	·1080
	***
22. 45	·1084
	***
22. 47	·1080
	***
23. 30	·1076
	***
23. 45	·1082
Apr. 29	
0. 0	·1081
	***
1. 7	·1076
	***
1. 21	·1072
2. 32	·1073
	***
3. 3	·1066
3. 14	·1069
3. 24	·1064
4. 23	·1068
4. 52	·1076
5. 30	·1071
5. 36	·1075
5. 48	·1074
5. 52	·1090
9. 9	·1081
9. 30	·1079
9. 37	·1071
10. 22	·1072
10. 37	·1070
12. 17	·1075
15. 26	·1076
15. 46	·1073
	***
16. 56	·1081
	***
19. 57	·1081
	***
20. 11	·1083
	***
23. 3-	·1071

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Apr. 29	
h m	
0. 0	·01276
2. 5	·01170
2. 52	·01057
3. 35	·01028
	·01142
5. 40:	·01057
12. 7	·01089
14. 9	·01221
19. 50	·01748
22. 0	·01740
23. 59	·01668

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 29		
h m		°
1. 40	51 ·0	51 ·0
3. 40	54 ·4	55 ·0
9. 40	56 ·2	57 ·0
21. 40	48 ·0	50 ·2

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 30		Apr. 30		Apr. 30		Apr. 30		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 30		(†)	1. 0	·01635	1. 40	51·7	52·7
1. 42	40. 0	1. 40	·1069	2. 51	·01532	3. 40	54·2	55·2
2. 7	39. 5	2. 5	·1064	6. 0	·01200	9. 40	58·0	58·6
2. 28	39. 40	2. 28	·1068	7. 7	·01133	21. 40	49·9	51·8
2. 42	38. 30	2. 40	·1064	9. 5	·01091			
4. 18	37. 0	2. 52	·1067	11. 34	·01094			
4. 45	37. 10		***	15. 33	·01297			
4. 59	36. 50	5. 19	·1066	19. 36	·01640			
7. 43	35. 35	5. 48	·1071	20. 34	·01694			
8. 40	35. 40	5. 55	·1067	21. 45	·01677			
8. 55	35. 10	6. 7	·1073		·01601			
9. 15	35. 30	6. 13	·1074	23. 37	·01578			
9. 41	33. 20	6. 19	·1078					
10. 9	35. 30	7. 15	·1074					
10. 15	32. 30	9. 30	·1071					
10. 30	33. 30	9. 55	·1067					
11. 0	34. 45	10. 14	·1077					
12. 44	35. 0	10. 40	·1072					
13. 46	36. 0	11. 0	·1074					
13. 57	37. 15	11. 21	·1071					
14. 54	36. 0	14. 20	·1077					
15. 30	36. 50	19. 54	·1082					
15. 57	36. 0	21. 36	·1075					
16. 30	36. 20	23. 30	·1065					
17. 42	34. 50							
18. 39	34. 10							
18. 54	34. 30							
19. 53	33. 10							
21. 15	34. 0							
23. 59	38. 25							
May 1		May 1		May 1		May 1		
0. 0	21. 38. 25	0. 0	·1068	0. 0	·01201	1. 40	52·3	54·0
1. 10	39. 35	0. 47	·1066	2. 0	·01516	3. 40	54·6	56·0
4. 28	36. 0		***	3. 33	·01358	9. 40	58·3	58·4
6. 1	35. 30	1. 18	·1073		·01317	21. 40	51·2	53·2
10. 0	35. 30		***	6. 39	·01176			
16. 0	35. 30	5. 7	·1073	8. 0	·01138			
18. 40	33. 0	5. 26	·1074	9. 49	·01141			
19. 23	33. 10	12. 57	·1075	12. 25	·01219			
20. 54:	31. 25	20. 52	·1085	14. 26	·01360			
22. 11	33. 30	21. 50	·1081	19. 10	·01754			
23. 59	37. 30	23. 21	·1070	20. 15	·01803			
				23. 59	·01778			
May 2		May 2		May 2		May 2		
0. 0	21. 37. 30	1. 7	·1065	1. 0	·01737	1. 40	54·2	55·4
3. 15	38. 30		***	2. 48	·01616	3. 40	57·0	58·0
5. 50	34. 30	4. 22	·1071	4. 0	·01458	9. 40	58·0	59·3
6. 11	34. 0		***	5. 24	·01237	23. 6	50·0	51·0
6. 43	34. 30	4. 30	·1067	6. 30	·01132			
7. 15	34. 0		***		·01154			
7. 43	34. 50	5. 11	·1069	7. 35	·01122			
11. 47	35. 30		***	8. 37	·01135			
	***	5. 53	·1074	10. 30	·01180			
17. 14	34. 40		***	14. 56	·01478			
	***	6. 43	·1073	18. 14	·01895			
18. 23	33. 5		***	21. 0	·01840			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. E. Magnet.	Of V. E. Magnet.
May 2		May 2		May 2				
h m	° ′ ″	h m		h m		h m	°	°
19. 43	21. 31. 50	6. 58	·1071	23. 36	·01823			
20. 44	33. 0		***					
22. 1	37. 20	7. 55	·1076					
23. 13	39. 40	8. 20	·1074					
23. 59	39. 45	10. 10	·1077					
		15. 54	·1086					
		16. 53	·1084					
		17. 22	·1086					
		18. 41	·1083					
		19. 37	·1078					
		19. 48	·1079					
		23. 9	·1070					
		23. 59	·1067					
May 3		May 3		May 3		May 3		
0. 0	21. 39. 45	0. 0	·1067	0. 0	·01812	8. 42	56·0	57·5
0. 53	41. 20	0. 37	·1069	2. 21	·01743	12. 40	53·1	54·4
1. 47	41. 30		***	3. 50	·01642	13. 40	52·4	53·9
2. 12	41. 55	2. 10	·1080	7. 0	·01360	14. 40	51·9	53·0
2. 21	41. 0		***	8. 39	·01265	15. 40	51·4	52·4
2. 37	40. 50	2. 19	·1076	10. 0	·01257	16. 40	51·4	52·2
3. 2	39. 30		***	11. 6	·01296	17. 40	51·0	52·0
4. 24	37. 40	2. 39	·1076	12. 45	·01415	18. 40	50·4	51·2
4. 45	37. 45		***	15. 23	·01712	19. 40	50·2	51·2
5. 0	37. 0	3. 4	·1068	17. 31	·01904	20. 40	50·2	51·2
5. 9	37. 30		***		·01798	21. 40	50·8	51·7
6. 0	36. 0	5. 0	·1076	19. 26	·01836	22. 40	51·2	52·2
6. 44	35. 50		***	19. 32	·01802	23. 40	52·5	53·4
7. 22	32. 40	5. 12	·1081	20. 19	·01814			
7. 41	33. 30		***	22. 9	·01737			
7. 55	33. 0	6. 2	·1084	23. 0	·01720			
9. 42	36. 30	6. 6	·1086	23. 41	·01666			
10. 22	36. 35	6. 48	·1088					
12. 14	36. 30	8. 46	·1081					
14. 2	35. 5	9. 24	·1083					
14. 12	35. 30	10. 9	·1081					
14. 23	34. 50	10. 55	·1081					
15. 5	34. 30	18. 41	·1080					
15. 16	35. 0	21. 30	·1072					
15. 58	33. 40	23. 59	·1072					
16. 5	34. 0							
16. 39	33. 30							
17. 11	33. 30							
17. 24	33. 0							
18. 14	31. 30							
	***							
19. 16	30. 20							
20. 4	31. 5							
20. 13	30. 0							
23. 59	38. 20							
May 4		May 4		May 4		May 4		
0. 0	21. 38. 20	0. 0	·1072	0. 48	·01583	0. 40	54·0	54·5
1. 28	38. 20		***	2. 37	·01401	1. 40	55·0	55·6
2. 42	38. 0	2. 47	·1074	4. 54:	·01060	2. 40	56·4	56·3
5. 21	34. 0		***	10. 0	·01159	3. 40	57·7	57·7
8. 28	33. 50	8. 11	·1072	14. 25	·01501	4. 40	59·0	59·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 4		May 4		May 4		May 4		
h m	° ′ ″	h m		h m		h m	°	°
12. 42	21. 35. 35	9. 32	·1066	17. 39	·01920	5. 40	59·5	59·5
12. 46	35. 25	11. 53	·1073		·01882	6. 40	60·4	60·3
14. 40	36. 25	12. 18	·1073	19. 56	·01884	7. 40	61·1	60·9
15. 12	35. 30	15. 30	·1081	21. 37	·01827	8. 40	61·0	60·8
16. 15	35. 30	18. 17	·1084	23. 59	·01804	9. 40	60·0	61·0
17. 54	33. 30	20. 20	·1081			10. 40	59·2	59·5
18. 0	34. 0	21. 38	·1082			11. 40	58·8	59·0
18. 7	32. 20	22. 0	·1080			21. 40	49·0	52·0
	***	23. 59	·1077					
19. 15	31. 30							
20. 26	30. 0							
21. 43	32. 40							
22. 15	35. 30							
23. 37	39. 0							
23. 59	39. 10							
May 5		May 5		May 5		May 5		
0. 0	21. 39. 10	0. 0	·1077	0. 54	·01783	1. 40	53·2	54·2
2. 43	38. 20	3. 42	·1077	2. 30	·01677	3. 40	56·1	56·6
3. 45	35. 50	4. 11	·1079	5. 27	·01316	9. 40	59·0	58·8
6. 40	33. 30	6. 4	·1080	6. 23	·01228	21. 40	49·7	51·5
10. 43	35. 30	6. 52	·1085	8. 0	·01185			
13. 23	35. 50	8. 10	·1081	10. 49	·01194			
	***	8. 45	·1082	15. 30	·01539			
14. 4	35. 0	9. 0	·1081	18. 35	·01874			
14. 10	36. 5	10. 9	·1079	19. 18	·01896			
14. 24	34. 40	17. 21	·1096		·01824			
	***	21. 39	·1091	23. 59	·01793			
16. 45	34. 30	23. 25	·1081					
17. 14	33. 40	23. 59	·1082					
18. 24	32. 50							
20. 2	31. 30							
20. 14	32. 0							
20. 48	31. 0							
22. 51	37. 5							
23. 59	38. 30							
May 6		May 6		May 6		May 6		
0. 0	21. 38. 30	0. 0	·1082	1. 6	·01729	1. 40	54·3	55·2
0. 30	39. 30	1. 37	·1086	2. 52	·01645	3. 40	57·7	58·0
0. 45	41. 30	1. 51	·1090	5. 0	·01181	9. 40	59·7	61·0
1. 12	41. 10	2. 9	·1086	5. 37	·01112	21. 40	49·0	51·2
	***	2. 22	·1074	10. 15	·01235			
2. 11	42. 30	2. 43	·1072	12. 0	·01317			
2. 27	40. 0	2. 57	·1080	14. 6	·01543			
2. 37	40. 40	3. 26	·1079	16. 55	·01918			
2. 47	39. 40	4. 31	·1079		·01857			
3. 2	40. 50	5. 37	·1084	23. 59	·01778			
	***	6. 8	·1077					
5. 28	38. 30	6. 22	·1079					
5. 44	39. 0	6. 36	·1076					
5. 55	38. 40	7. 6	·1074					
6. 14	38. 35	7. 38	·1078					
7. 36	34. 30	8. 16	·1077					
8. 4	34. 0	8. 27	·1075					
9. 3	32. 40	9. 17	·1072					
9. 54	34. 20	9. 40	·1076					
10. 26	33. 40	10. 32	·1074					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 6		May 6						
h m	° ′ ″	h m		h m		h m	°	°
10. 44	21. 34. 10	11. 4	·1077					
10. 58	33. 40	11. 25	·1074					
11. 15	34. 0	11. 39	·1083					
11. 50	25. 50	12. 0	·1088					
12. 56	33. 40	12. 56	·1084					
13. 19	33. 30	13. 18	·1088					
14. 51	35. 30	15. 2	·1090					
	***	15. 26	·1094					
15. 45	35. 0	21. 9	·1097					
16. 11	35. 30	21. 24	·1103					
17. 42	33. 0	21. 48	·1096					
	***	22. 7	·1107					
18. 45	32. 20	22. 30	·1106					
	***	22. 40	·1097					
20. 50	33. 30	22. 45	·1098					
21. 13	32. 0	22. 52	·1094					
21. 29	34. 0	23. 0	·1100					
21. 57	33. 30	23. 8	·1092					
22. 14	34. 20	23. 41	·1096					
22. 25	36. 30	23. 59	·1100					
22. 30	35. 5							
22. 39	36. 0							
22. 44	35. 0							
22. 53	37. 30							
22. 59	35. 30							
23. 40	37. 10							
23. 51	40. 0							
23. 59	39. 40							
May 7		May 7		May 7		May 7		
0. 0	21. 39. 40	0. 0	·1106	1. 13	·01718	1. 40	52·3	54·2
0. 11	38. 50	0. 15	·1088	2. 6	·01660	3. 40	55·7	56·7
0. 29	39. 30	0. 42	·1087	2. 8	·01677	9. 40	60·2	60·5
0. 36	43. 50	0. 45	·1122	2. 19	·01634	21. 40	49·2	51·7
0. 41	41. 10	0. 47	·1117	2. 31	·01640			
0. 43	42. 50	0. 51	·1123	2. 35	·01604			
0. 49	41. 45	0. 59	·1117	2. 50	·01693			
0. 57	43. 0	1. 5	·1123	3. 29	·01493			
1. 21	42. 30	1. 16	·1104	3. 54	·01469			
1. 40	40. 0	2. 24	·1111	4. 9	·01416			
1. 43	39. 35	2. 32	·1099	4. 59	·01320			
1. 45	46. 0	2. 42	·1109	5. 6	·01335			
1. 52	44. 0	2. 53	·1098	5. 17	·01269			
2. 13	49. 0	3. 6	·1102	6. 10	·01176			
2. 22	46. 30	3. 21	·1086	7. 7	·01145			
2. 32	52. 0	3. 50	·1123	8. 14	·01157			
2. 40	45. 30	4. 4	·1094	8. 30	·01103			
2. 52	46. 35	4. 11	·1107	9. 0	·01122			
2. 57	46. 30	4. 16	·1106	10. 3	·01016			
3. 5	47. 30	4. 30	·1126	10. 18	·00936			
3. 21	47. 30	4. 39	·1134	10. 50	·00843			
3. 42	44. 30	4. 43	·1115	10. 53	·00868			
3. 55	45. 30	4. 54	·1108	11. 1	·00841			
4. 13	44. 20	5. 1	·1132	11. 6	·00849			
4. 22	45. 30	5. 12	·1090	11. 15	·00923			
4. 30	44. 25	5. 23	·1077	11. 40	·00880			
4. 37	45. 50	5. 38	·1068	11. 54	·00876			
4. 46	46. 20	5. 44	·1070	12. 5	·00798			
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 7		May 7		May 7				
h m	° ′ ″	h m		h m		h m	°	°
5. 0	21. 45. 0	5. 51	·1083	12. 14	·00820			
5. 10	47. 40	6. 7	·1066	12. 21	·00884			
5. 25	48. 20	7. 3	·1080	12. 39	·00829			
5. 56	45. 35	7. 13	·1097	12. 45	·00781			
6. 6	44. 30	7. 30	·1079	13. 4	·00860			
6. 12	44. 30	7. 42	·1076	13. 32	·00796			
6. 53	36. 30	7. 46	·1079	13. 40	·00803			
7. 11	38. 30	8. 3	·1072	13. 53	·00701			
7. 19	38. 40	8. 15	·1059	14. 3	·00754			
7. 30	39. 50	8. 30	·1037	14. 21	·00284			
7. 57	33. 15	8. 43	·1072	14. 27	·00612			
8. 13	37. 50	8. 50	·1086	14. 38	·00803			
8. 21	32. 20	8. 59	·1096	14. 49	·00876			
8. 49	11. 0	9. 10	·1079	14. 55	·00860			
9. 9	22. 20	9. 40	·1061	15. 39	·01042			
9. 26	19. 50	9. 47	·1066	15. 51	·00940			
9. 42	21. 30	10. 0	·1066	16. 0	·00936			
9. 58	19. 25	10. 12	·1042	16. 21	·01085			
10. 9	24. 25	10. 31	·1062	16. 35	·01056			
10. 28	15. 55	10. 45	·1049	16. 43	·01129			
10. 45	19. 0	10. 49	·1057	17. 2	·01175			
11. 0	26. 50	11. 3	·1040	17. 9	·01097			
11. 15	18. 0	11. 13	·1074	17. 15	·01102			
11. 29	21. 30	11. 26	·1078	17. 16	·01146			
11. 38	20. 0	11. 32	·1056	17. 22	·01143			
11. 45	24. 35	11. 45	·1054	17. 53	·01260			
11. 53	28. 30	11. 48	·1050	18. 3	·01255			
12. 0	29. 50	11. 54	·1061	18. 18	·01339			
12. 9	19. 0	12. 11	·1049	18. 39	·01369			
12. 19	25. 5	12. 23	·1095	19. 54	·01657			
12. 39	35. 45	12. 30	·1084	20. 46	·01755			
12. 45	21. 34. 10	12. 39	·1084		·01721			
13. 12	20. 58. 15	12. 47	·1079	21. 5	·01720			
13. 46	21. 19. 5	13. 7	·1051	21. 36	·01783			
13. 53	13. 10	13. 11	·1054	23. 51	·01797			
14. 12	38. 30	13. 17	·1049					
14. 29	16. 10	13. 20	·1058					
14. 52	28. 30	13. 37	·1062					
15. 9	19. 30	14. 2	·1018					
15. 37	49. 50	14. 22	·0941					
16. 9	31. 30	14. 39	·1076					
16. 22	40. 50	14. 41	·1072					
16. 32	51. 50	14. 48	·1079					
16. 40	21. 49. 30	15. 0	·1066					
17. 0	22. 8. 50	15. 22	·1104					
17. 13	21. 59. 25	15. 40	·1028					
17. 15	22. 2. 15	15. 45	·1050					
17. 26	21. 52. 30	15. 49	·1047					
	***	15. 53	·1057					
17. 39	52. 55	16. 2	·1042					
17. 47	48. 0	16. 14	·1057					
17. 59	54. 15	16. 25	·1044					
18. 6	51. 0	16. 47	·1060					
18. 13	53. 50	16. 51	·1080					
18. 24	57. 0	17. 8	·1094					
	***	17. 22	·1040					
18. 42	51. 30	17. 40	·1091					
19. 18	36. 0	17. 53	·1078					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 7		May 7						
h m	° ′ ″	h m		h m		h m	°	°
19. 30	21. 37. 15	18. 0	·1080					
19. 44	33. 0	18. 9	·1096					
	***	18. 14	·1060					
20. 53	42. 20	18. 30	·1022					
21. 14	37. 30	18. 45	·1011					
21. 26	41. 0	19. 6	·1034					
21. 36	39. 30	19. 25	·1012					
21. 56	42. 25	19. 37	·1018					
22. 11	40. 30	19. 54	·0998					
22. 45	42. 0	20. 30	·1006					
	***		***					
23. 59	41. 20	20. 32	·1014					
			***					
		20. 54	·1016					
		21. 9	·0997					
		21. 24	·1026					
		21. 31	·1021					
		21. 40	·1028					
		22. 0	·1024					
		22. 17	·1035					
		23. 23	·1046					
			***					
		23. 59	·1054					
May 8		May 8		May 8		May 8		
0. 0	21. 41. 20	0. 0	·1054			1. 40	54 ·2	55 ·6
0. 12	41. 25	0. 54	·1068	1. 50	·01694	3. 40	58 ·0	59 ·4
0. 26	39. 0	1. 7	·1055	4. 49	·01160	9. 40	63 ·2	63 ·2
0. 53	43. 10	1. 26	·1044	6. 23	·01153	21. 40	52 ·3	54 ·2
1. 7	44. 20	1. 40	·1054	9. 0	·01196			
1. 14	43. 50	1. 48	·1065	11. 7	·01282			
1. 21	45. 0	2. 23	·1071	13. 5	·01380			
1. 43	38. 50	2. 36	·1073	17. 3	·01906			
2. 11	38. 10	2. 49	·1066	22. 0	·01894			
2. 26	39. 0	3. 0	·1067	23. 59	·01874			
2. 31	38. 30	3. 8	·1064					
2. 40	39. 10	3. 32	·1071					
2. 56	38. 30	4. 4	·1061					
3. 2	39. 20	4. 12	·1053					
3. 10	39. 0	4. 38	·1059					
3. 37	40. 25	4. 56	·1056					
	***	6. 47	·1069					
6. 14	35. 10	7. 6	·1077					
6. 49	35. 25	7. 23	·1072					
7. 14	36. 30	7. 49	·1072					
7. 28	35. 0	8. 8	·1064					
8. 28	35. 25	8. 30	·1061					
10. 46	39. 30	9. 0	·1064					
10. 57	40. 30	9. 37	·1062					
11. 7	39. 30	9. 51	·1083					
11. 28	39. 40	10. 9	·1070					
11. 42	38. 30	11. 10	·1058					
11. 49	38. 40	11. 24	·1060					
12. 30	37. 0	11. 33	·1059					
12. 52	37. 45	11. 56	·1066					
13. 12	39. 30	12. 7	·1064					
13. 37	39. 50	12. 52	·1066					
15. 0	37. 40	13. 11	·1069					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 8		May 8						
h m	° ′ ″	h m		h m		′ ″		
15. 34	21. 36. 35	14. 30	·1065					
15. 59	35. 35	16. 6	·1073					
16. 54	35. 50	18. 0	·1076					
19. 40	30. 10	18. 54	·1076					
20. 37	31. 0	19. 34	·1072					
23. 44	38. 40	20. 32	·1072					
		22. 47	·1063					
May 9		May 9		May 9		May 9		
1. 40	21. 41. 13*	0. 30	·1059	1. 3	·01778	1. 40	57 ·4 58 ·2	
3. 40	40. 49*			2. 36	·01600	3. 40	61 ·0 62 ·3	
9. 40	36. 41*	6. 0	·1062	3. 34	·01454	9. 40	61 ·6 64 ·0	
21. 58	34. 11*	6. 29	·1069 (†)	4. 45	·01162 / ·01192	21. 58	53 ·0 55 ·1	
		8. 9	·1070	6. 33	·01201			
		10. 56	·1068	10. 26	·01354			
		12. 23	·1076	11. 30	·01420			
		12. 37	·1071	15. 34	·01938			
				16. 30	·01995			
		13. 45	·1077	22. 17	·01855			
		19. 8	·1083					
		20. 50	·1090					
		21. 21	·1089					
		23. 59	·1081					
May 10		May 10		May 10		May 10		
0. 0	21. 38. 35	0. 0	·1081	0. 0	·01808	7. 36	56 ·0 58 ·5	
1. 13	41. 30	0. 53	·1077	3. 5	·01697	12. 40	55 ·7 58 ·0	
1. 30	41. 45	1. 43	·1092	6. 4	·01610	13. 40	55 ·4 57 ·5	
2. 0	40. 40	2. 1	·1088	6. 23	·01646	14. 40	56 ·0 58 ·0	
2. 9	41. 10	2. 9	·1094	8. 30	·01608	15. 40	55 ·7 58 ·2	
2. 23	40. 50	2. 32	·1093	9. 32	·01460	16. 40	56 ·5 58 ·5	
2. 43	39. 50	2. 45	·1091	11. 18	·01474	17. 40	57 ·0 58 ·5	
3. 24	40. 10	2. 52	·1094	13. 2	·01561	18. 40	57 ·3 59 ·0	
3. 29	40. 50	3. 37	·1101	13. 15	·01540	19. 40	57 ·5 59 ·1	
3. 45	39. 30	3. 52	·1092	13. 39	·01581	20. 40	57 ·5 59 ·0	
4. 45	40. 40	4. 49	·1111	15. 54	·01634	21. 40	57 ·7 59 ·3	
5. 19	45. 0	5. 3	·1110	16. 22	·01627	22. 40	58 ·0 59 ·7	
5. 42	39. 20	5. 18	·1149	16. 50	·01584	23. 40	59 ·0 61 ·1	
5. 57	39. 15	5. 25	·1116	17. 15	·01454			
6. 1	37. 35	5. 30	·1120	17. 32	·01407			
6. 15	37. 40	5. 43	·1095	20. 0	·01514			
6. 22	36. 5	6. 7	·1137	20. 56	·01511			
7. 36	38. 50	6. 13	·1128	23. 59	·01202			
7. 59	30. 35	6. 22	·1131					
8. 14	32. 40	6. 26	·1125					
8. 29	36. 10							
8. 45	30. 40	6. 37	·1132					
9. 0	33. 35							
9. 16	34. 0	6. 52	·1106					
9. 27	33. 20							
9. 45	36. 5	7. 11	·1120					
9. 56	35. 50							
10. 1	35. 50	7. 57	·1105					
10. 11	33. 55							
	(†)	8. 10	·1122					
11. 45	33. 20							
12. 22	34. 0	8. 21	·1109					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 10		May 10						
h m	° ′ ″	h m		h m		′ ″		
12. 43	21. 31. 53	8. 32	·1116					
12. 58	35. 35							
13. 14	34. 50	8. 43	·1111					
13. 22	32. 20							
13. 38	34. 50	8. 55	·1101					
13. 59	32. 0							
14. 22	34. 55	9. 7	·1108					
14. 33	33. 25							
14. 44	33. 40	9. 21	·1102					
14. 52	34. 35							
15. 0	32. 40	9. 34	·1107					
15. 12	32. 10							
16. 5	43. 40	9. 46	·1097					
16. 40	31. 20							
17. 21	33. 20	9. 55	·1103					
17. 54	29. 50							
18. 5	31. 5	10. 15	·1104					
18. 18	30. 30	10. 32	·1096					
18. 30	30. 0	10. 42	·1098					
18. 39	31. 25	10. 51	·1109					
18. 51	29. 30	11. 10	·1103					
19. 10	33. 0	11. 55	·1104					
19. 32	31. 0	12. 24	·1109					
		12. 45	·1088					
19. 57	33. 45	13. 0	·1098					
20. 13	33. 40	13. 29	·1094					
		13. 41	·1097					
20. 41	37. 20							
		14. 7	·1087					
20. 59	38. 25	14. 45	·1088					
21. 16	42. 30	14. 59	·1085					
22. 15	41. 35	15. 2	·1079					
23. 15	43. 40	15. 24	·1078					
23. 26	43. 40	15. 43	·1059					
23. 30	43. 55	16. 11	·1111					
23. 45	44. 25	16. 26	·1105					
		16. 40	·1110					
		17. 2	·1094					
		17. 14	·1095					
		17. 22	·1085					
		17. 40	·1086					
		18. 12	·1082					
		18. 24	·1077					
		18. 37	·1078					
		18. 45	·1074					
		19. 5	·1076					
		19. 30	·1068					
		20. 11	·1065					
		20. 40	·1074					
		21. 26	·1070					
		21. 53	·1073					
		22. 6	·1071 (†)					
May 11		May 11		May 11		May 11		
0. 45	21. 40. 0		(†)	1. 51	·01365	0. 40	60 ·1 62 ·6	
0. 57	40. 30	1. 40	·1064*	3. 30	·01238	1. 40	62 ·0 63 ·1	

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

May 9. The Photographic Trace of the Declination Magnet was considered too faint to be used with certainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
May 11		May 11		May 11		May 11		
h m	° ′ ″	h m		h m		h m		
1. 12	21. 39. 30	3. 40	·1008*	5. 36	·01240	2. 40	62 ·2	64 ·1
1. 27	40. 30	3. 50	·1076	7. 51	·01155	3. 40	63 ·3	65 ·0
2. 13	38. 0	4. 0	·1090	9. 5	·01238	4. 40	65 ·1	67 ·4
2. 55	36. 50	4. 7	·1074	9. 52	·01280	5. 40	66 ·2	68 ·0
3. 4	38. 25	4. 37	·1	10. 7	·01318	6. 40	66 ·3	68 ·2
3. 13	36. 40	5. 16	·1080	12. 2	·01343	7. 40	66 ·3	68 ·2
3. 43	37. 0	5. 30	·1064	13. 12	·01424	8. 40	66 ·3	68 ·5
3. 54	38. 20	5. 41	·1063	14. 19	·01574	9. 40	67 ·6	68 ·4
4. 0	37. 0	5. 48	·1068	17. 20	·02035	10. 40	67 ·0	68 ·3
5. 0	36. 30	6. 9	·1057	18. 30	·01984	11. 40	66 ·3	67 ·0
5. 17	37. 20	6. 25	·1054	22. 24	·01955	21. 40	60 ·3	62 ·2
5. 43	36. 25	6. 40	·1058	23. 59	·01920			
6. 14	36. 20	7. 48	·1050					
6. 49	34. 0	8. 0	·1069					
6. 55	34. 25	8. 7	·1065					
7. 15	34. 25	8. 22	·1081					
7. 30	33. 0	8. 38	·1081					
8. 1	33. 25	8. 47	·1072					
8. 15	29. 5	9. 0	·1075					
8. 32	32. 55	9. 9	·1055					
8. 45	29. 40	9. 20	·1058					
9. 1	28. 35	9. 29	·1051					
9. 13	32. 50	9. 47	·1056					
9. 31	35. 0	10. 6	·1056					
9. 43	32. 50	10. 17	·1051					
10. 1	29. 30	10. 28	·1054					
10. 14	31. 25	10. 52	·1054					
10. 28	29. 15	11. 33	·1096					
10. 45	32. 20		***					
11. 4	31. 50	11. 41	·1063					
11. 28	35. 30		***					
11. 47	32. 50	12. 20	·1062					
12. 0	33. 30	12. 44	·1063					
13. 0	34. 0	13. 24	·1066					
13. 11	34. 50	13. 37	·1057					
13. 24	33. 30	14. 8	·1064					
	***		***					
14. 13	35. 30	14. 23	·1064					
15. 5	34. 20		***					
15. 15	35. 0		·1055					
15. 45	34. 0	16. 22	·1056					
16. 0	34. 50	16. 41	·1053					
16. 15	34. 40	17. 0	·1075					
16. 29	36. 0	17. 15	·1072					
16. 44	35. 40	17. 26	·1074					
17. 15	37. 50	18. 6	·1064					
18. 4	33. 50	18. 56	·1061					
	***	19. 19	·1062					
19. 0	33. 50	19. 47	·1061					
19. 44	34. 30		(†)					
21. 35	40. 0	21. 40	·1057					
23. 15	42. 45							
23. 52	45. 20							
23. 59	42. 35							
May 12		May 12		May 12		May 12		
0. 0	21. 42. 35	0. 39	·1053	0. 30	·01858	1. 40	59 ·6	62 ·4
1. 34	42. 30		***	3. 32	·01803	3. 40	62 ·2	63 ·7

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
May 12		May 12		May 12		May 12		
h m	° ′ ″	h m		h m		h m		
2. 15	21. 41. 30	1. 41	·1054	5. 26	·01557	9. 40	64 ·3	65 ·7
3. 36	40. 45			7. 45	·01424	21. 40	60 ·3	62 ·2
4. 10	39. 20	2. 6	·1052	9. 31	·01396			
4. 43	38. 25		***	11. 0	·01454			
5. 45	38. 30	2. 34	·1062	16. 48	·01633			
6. 22	37. 30		***	17. 5	·01621			
6. 45	34. 0	3. 7	·1062	18. 52	·01662			
6. 50	34. 50	4. 24	·1078	20. 33	·01674			
7. 5	31. 20	4. 39	·1076	21. 0	·01620			
7. 22	33. 50	5. 5	·1077	22. 52	·01557			
	(†)	5. 30	·1079	23. 59	·01460			
9. 40	29. 30*	5. 48	·1088					
10. 8	30. 20	6. 31	·1078					
10. 12	29. 35	6. 46	·1084					
10. 30	33. 30	7. 1	·1074					
10. 59	33. 5	7. 9	·1084					
13. 35	35. 35	7. 28	·1074					
16. 22	37. 0	7. 41	·1078					
20. 15	33. 0	8. 46	·1068					
22. 32:	35. 0	9. 9	·1070					
23. 59	40. 25	9. 37	·1064					
		10. 43	·1071					
		10. 54	·1066					
		11. 10	·1069					
		11. 31	·1066					
		11. 54	·1072					
		12. 32	·1070					
		14. 0	·1075					
		18. 35	·1074					
		23. 0	·1057					
May 13		May 13		May 13		May 13		
0. 0	21. 40. 30	0. 40	·1040	0. 39	·01363	1. 40	64 ·0	66 ·2
0. 39	42. 40	1. 2	·1052	2. 25	·01122	3. 40	65 ·8	67 ·5
2. 26	42. 35	1. 41	·1049	4. 0	·01138	9. 40	67 ·2	69 ·2
2. 41	42. 0	2. 31	·1057	4. 50	·01169	21. 45	60 ·0	61 ·3
3. 25	41. 20	2. 56	·1055	7. 5	·01180			
3. 45	42. 0	3. 39	·1058	9. 40	·01172			
4. 2	40. 40	3. 51	·1066	10. 21	·01184			
4. 24	41. 0	4. 11	·1053	11. 23	·01263			
4. 38	39. 10	5. 2	·1057	13. 49	·01595			
5. 9	38. 30	5. 15	·1064	14. 30	·01656			
5. 15	38. 30	5. 23	·1068	17. 16	·02063			
5. 38	37. 30		***		·01958			
7. 40	38. 0	5. 40	·1066	21. 14	·01974			
8. 0	37. 0	5. 50	·1060	23. 32	·01815			
8. 13	36. 30	6. 18	·1062					
8. 29	36. 50	6. 30	·1066					
8. 58	36. 0	6. 57	·1060					
9. 15	36. 20	7. 30	·1056					
10. 9	35. 30	7. 41	·1056					
10. 37	33. 55	8. 0	·1058					
11. 15	33. 5	8. 17	·1055					
13. 13	34. 10	9. 3	·1054					
13. 58	38. 45	9. 28	·1055					
14. 45	31. 10	10. 5	·1057					
15. 36	29. 45	10. 24	·1054					
16. 12	32. 35	11. 4	·1060					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
May 13 h m	° ′ ″
18. 14	21. 33. 50
19. 15	32. 30
21. 31	33. 55
23. 22	40. 20
23. 59	39. 30
May 14	
0. 0	21. 39. 30
0. 16	40. 35
0. 30	40. 55
1. 30	43. 30
2. 43	43. 40
5. 22	39. 20
6. 22	36. 20
6. 54	35. 15
7. 32	35. 50
7. 45	34. 45
10. 56	36. 20
14. 31	36. 30
15. 43	37. 0
18. 14	36. 20
21. 46	34. 40
23. 58	38. 40
May 15	
0. 36	21. 40. 0
1. 36	40. 30
3. 42	38. 45
5. 56	36. 30
7. 43	35. 20
16. 49	36. 0
17. 47	34. 30
19. 43	33. 25
21. 37	33. 40
22. 26	35. 5 (†)

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 13 h m	
11. 21	·1053
11. 39	·1051
12. 6	·1061
12. 45	·1062
13. 10	·1049
13. 30	·1052
13. 43	·1050
13. 55	·1061
15. 0	·1069
15. 43	·1066
16. 32	·1069
17. 7	·1065
17. 22	·1066
17. 39	·1063
19. 4	·1064
20. 25	·1062
23. 59	·1049
May 14	
0. 0	·1049
	***
0. 50	·1044
	***
1. 25	·1041
	***
1. 58	·1046
	***
2. 27	·1041
3. 43	·1044
7. 12	·1056
7. 28	·1062
7. 44	·1057
8. 12	·1054
8. 39	·1054
8. 52	·1048
10. 10	·1052
10. 39	·1051
11. 24	·1053
15. 27	·1065
16. 30	·1064
17. 18	·1065
17. 37	·1067
18. 35	·1068
20. 50	·1057
21. 36	·1056 (†)
May 15	
	(†)
1. 40	·1050
2. 37	·1044
4. 45	·1041
5. 51	·1043
6. 46	·1039
7. 3	·1039
8. 7	·1037
9. 36	·1038
10. 32	·1042

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 14	
0. 0	·0178
1. 12	·01636
4. 16	·01137
5. 15	·01188
6. 39	·01176
8. 5	·01150
10. 15	·01207
12. 33	·01355
14. 0	·01544
16. 54	·02046
	·01960
21. 49	·01965
23. 25	·01844
May 15	
0. 33	·01673
1. 45	·01485
2. 48	·01225
4. 30	·01161
8. 36	·01427
9. 51	·01463
14. 30	·01981
	·01937
19. 55	·01901
22. 21	·01840

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 14		
1. 40	64·4	66·2
3. 40	67·0	68·5
9. 40	68·2	70·1
21. 40	60·6	62·0
May 15		
1. 40	67·0	68·2
3. 40	70·2	72·2
9. 40	71·2	73·0
21. 40	63·0	64·5

Göttingen Mean Solar Time.	Western Declination
h m	° ′
May 16	
0. 57	21. 40. 0
2. 45	40. 0
5. 40	37. 20
8. 15	36. 5
14. 0	34. 55
16. 2	34. 35
17. 45	33. 0
18. 53	32. 25
19. 36	32. 20
20. 13	33. 20
20. 30	32. 55
22. 13	35. 50
23. 42	40. 0
May 17	
9. 25	21. 33. 14*
21. 40	25. 55*
May 18	
1. 40	21. 38. 31*
3. 43	40. 58*
9. 40	35. 6*
21. 40	33. 29*

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 15 h m	
13. 8	·1056
19. 12	·1066
20. 13	·1064
21. 40	·1052
22. 19	·1050 (†)
May 16	
0. 0	·1043
1. 43	·1039
2. 4	·1040
3. 40	·1049
4. 9	·1046
4. 38	·1049
4. 46	·1046
5. 0	·1049
5. 8	·1046
5. 26	·1048
5. 45	·1048
6. 11	·1049
6. 20	·1052
8. 18	·1050
8. 32	·1047
	***
10. 9	·1049
10. 31	·1052
11. 5	·1050
11. 54	·1057
12. 10	·1056
20. 49	·1079
23. 7	·1062
23. 37	·1064
May 17	
9. 25	·1051
21. 40	·1072*
May 18	
	(†)
1. 15	·1066
	***
1. 31	·1065
	***
1. 48	·1059
	***
2. 40	·1050
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 15	
23. 38	·01754
May 16	
0. 54	·01640
2. 21	·01482
4. 15	·01056
	·01097
5. 34	·01088
7. 54	·01316
9. 10	·01384
13. 48	·01943
	·01921
17. 54	·01863
22. 19	·01820
22. 52	·01786
May 17	
0. 3	·01715
1. 0	·01653
1. 39	·01514
3. 9	·01294
4. 36	·01360
8. 5	·01680
10. 21	·01757
12. 38	·01946
12. 51	·01942
	·01900
15. 25	·01885
21. 36	·01794
23. 4	·01675
23. 59	·01532
May 18	
1. 0	·01349
2. 49	·01044
3. 21	·01020
4. 8	·01124
6. 17	·01228
6. 48	·01330
7. 25	·01407
8. 50	·01349

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
May 16		
1. 40	68·0	69·3
3. 40	71·0	72·2
9. 40	72·2	74·0
22. 55	62·0	63·2
May 17		
9. 25	70·4	74·3
12. 40	66·0	69·0
13. 40	64·2	67·6
14. 40	62·7	67·0
15. 40	61·8	65·6
16. 40	60·0	64·0
17. 40	59·0	62·8
18. 40	58·0	62·0
19. 40	58·4	61·6
20. 40	60·0	61·8
21. 40	61·8	62·2
22. 40	63·3	64·2
23. 40	64·8	65·6
May 18		
0. 40	66·7	67·3
1. 40	68·2	69·2
2. 40	70·4	71·3
3. 40	71·3	73·0
4. 40	72·8	74·2
5. 40	73·0	74·4
6. 40	73·4	74·8
7. 40	73·0	74·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

May 17 and 18. Workmen were engaged in the Magnet Room; the Photographic Traces of Declination were too faint for use; that of the Horizontal Force was too faint for use on the 17th.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 18 h m		May 18 h m		May 18 h m	°	°
		3. 6	·1051 ***	10. 1	·01378	8. 40	72·5	74·0
				10. 49	·01454	9. 40	71·7	73·5
		3. 26	·1048 ***	12. 15	·01723	10. 40	69·2	71·8
				14. 36	·01883	11. 40	69·0	71·5
		5. 27	·1054 ***	17. 46	{·01849 ·01781	21. 40	61·0	61·8
		6. 26	·1042 ***	18. 38	{·01780 ·01708			
		6. 40	·1042 ***	19. 15	{·01693 ·01603			
		7. 9	·1044 ***	21. 52	·01578			
				23. 59	·01458			
		7. 37	·1059 ***					
		9. 14	·1064 ***					
		10. 29	·1061 ***					
		10. 40	·1062 ***					
		11. 2	·1078 ***					
		11. 30	·1070 ***					
		12. 21	·1071 ***					
		14. 10	·1086 ***					
		14. 47	·1092 ***					
		15. 1	·1087 ***					
		15. 52	·1088 ***					
		16. 24	·1091 ***					
		16. 25	·1084 ***					
		17. 7	·1089 ***					
		18. 10	·1093 ***					
		18. 27	·1103 ***					
		18. 40	·1106 ***					
		19. 21	·1113 (†)					
		21. 40	·1117					
May 19		May 19		May 19		May 19		
1. 3	21. 44. 40	1. 0	·1102 ***	1. 15	·01275	1. 40	64·7	66·3
1. 13	44. 0			3. 0	·01041	3. 40	67·0	68·7
1. 24	44. 30	1. 5	·1106 ***	4. 7	{·00793 ·00877	9. 40	63·0	65·0
1. 39	43. 35 ***	1. 36	·1042 ***	5. 45	·01095	21. 40	58·0	59·2
2. 25	45. 10 ***	2. 31	·1109 ***	7. 51	·01103			
				9. 15	·01169			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 19 h m	° ′ ″	May 19 h m		May 19 h m		h m	°	°
3. 10	21. 40. 35 ***	2. 37	·1098 ***	10. 3	·01264			
				12. 16:	·01662			
3. 29	41. 10 ***	3. 36	·1102 ***	18. 39	{·01721 ·01568			
4. 3	39. 25 ***	3. 45	·1092 ***	20. 40	·01511			
5. 0	39. 30 ***	4. 30	·1093 ***	23. 59	·01293			
7. 11	34. 30 ***	4. 42	·1102 ***					
8. 37	34. 50 ***	5. 40	·1100 ***					
9. 44	36. 0 ***	5. 46	·1108 ***					
14. 6	36. 5	6. 0	·1106 ***					
14. 24	37. 0							
14. 45	36. 0	6. 6	·1092 ***					
15. 0	36. 30							
16. 44	34. 30	6. 16	·1101 ***					
17. 30	31. 0							
17. 54	32. 20	7. 22	·1102 ***					
18. 15	31. 0							
18. 58	31. 10	7. 28	·1108 ***					
19. 0	32. 0							
19. 15	30. 30	7. 52	·1105 ***					
19. 38	31. 30							
19. 41	29. 30	8. 20	·1111 ***					
19. 55	33. 0							
20. 14	30. 50	10. 13	·1116 ***					
20. 44	31. 50							
22. 10	38. 0	11. 39	·1122 ***					
22. 43	38. 5							
23. 59	41. 35	12. 8	·1121 ***					
		12. 35	·1126 ***					
		13. 26	·1125 ***					
		13. 41	·1129 ***					
		14. 0	·1124 ***					
		15. 47	·1132 ***					
		17. 40	·1133 ***					
		19. 1	·1136 ***					
		19. 52	·1136 ***					
		20. 14	·1129 ***					
		20. 42	·1129 ***					
		22. 2	·1113 ***					
		22. 41	·1114 ***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time	Western Declination.
h m	° ′ ″
May 19	
23. 35	
23. 59	
May 20	
0. 0	21. 41. 35
1. 0	42. 35
1. 40	42. 44*
3. 40	38. 50*
9. 40	35. 18*
21. 40	31. 17*
May 21	
	(†)
1. 9	21. 40. 30
1. 45	40. 20
3. 30	39. 0
3. 57	39. 0
5. 24	37. 15
8. 42	36. 30
9. 5	35. 30
10. 57	36. 30
13. 58	35. 50
14. 13	34. 55
14. 37	35. 0
15. 45	34. 50
16. 11	34. 55
18. 59	33. 20
21. 46	35. 30
22. 9	37. 30
23. 29	42. 0
23. 59	46. 5

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
May 19	
23. 35	·1106
23. 59	·1108
May 20	
1. 40	·1097*
3. 40	·1077*
9. 40	·1033*
21. 40	·1086*
May 21	
0. 45	·1100
1. 44	·1101
2. 5	·1094
2. 26	·1094
2. 47	·1099
3. 9	·1093
3. 22	·1099
4. 38	·1104
4. 53	·1095
5. 12	·1092
5. 44	·1094
5. 52	·1089
6. 17	·1088
6. 52	·1096
7. 18	·1096
7. 43	·1098
7. 55	·1094
8. 12	·1092
9. 9	·1091
9. 29	·1088
11. 16	·1091
11. 31	·1094
11. 40	·1093
11. 52	·1096
12. 54	·1092
13. 1	·1088
17. 44	·1102
20. 10	·1093
21. 8	·1085
21. 37	·1091
21. 55	·1089
22. 30	·1099
23. 2	·1086
23. 22	·1087

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 20	
1. 3	·01196
2. 9	·00924
5. 50	·00898
7. 27	·00860
9. 19	·00859
10. 45	·00954
17. 24	·01782
18. 30	·01826
21. 0	·01818
22. 5	·01765
May 21	
1. 0	·01120
3. 24	·01064
	·00956
3. 50	·00966
4. 28	·01023
7. 24	·00881
8. 54	·00860
10. 20	·00919
11. 22	·01000
13. 38	·01143
17. 0	·01195
21. 25	·01161
22. 38	·01036
23. 59	·00980

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m		
May 20		
1. 40	62·7	63·0
3. 40	66·5	67·2
9. 40	68·0	68·6
21. 40	60·7	61·9
May 21		
1. 40	62·8	63·8
3. 40	63·8	64·7
9. 40	64·0	66·5
21. 45	59·0	59·4

Göttingen Mean Solar Time	Western Declination.
h m	° ′ ″
May 22	
0. 0	21. 46. 5
0. 36	47. 30
3. 6	46. 40
3. 27	46. 0
5. 19	43. 45
6. 28	41. 35
9. 0	39. 20
10. 16	39. 25
10. 47	36. 50
11. 0	37. 0
11. 23	36. 25
11. 40	37. 10
13. 20	37. 50
14. 7	38. 35
14. 45	38. 0
15. 15	37. 30
15. 54	37. 30
16. 17	36. 50
16. 34	37. 0
17. 11	36. 5
17. 42	37. 0
18. 10	36. 15
18. 55	36. 30
19. 22	35. 50
19. 40	36. 20
19. 52	35. 30
21. 27	37. 0
22. 40	39. 40
23. 10	43. 0
23. 14	42. 0
23. 28	41. 0
May 23	
	(†)
1. 13	21. 44. 0
2. 40	45. 5
4. 30	39. 30
6. 44	37. 30
7. 16	37. 0
8. 20	37. 55
9. 47	36. 50
10. 15	37. 40
10. 53	33. 50
11. 28	36. 0
12. 55	36. 50
13. 28	35. 40
14. 15	36. 0
14. 22	35. 25
14. 36	36. 30
15. 12	36. 0
16. 22	36. 5
17. 29	34. 0
19. 13	32. 30
20. 52	32. 20
23. 0	38. 40
23. 46	40. 40

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
May 22	
0. 0	·1082
1. 52	·1083
3. 12	·1102
3. 30	·1102
3. 40	·1098
3. 52	·1100
4. 23	·1094
7. 41	·1102
8. 33	·1095
8. 44	·1098
9. 31	·1094
9. 43	·1097
10. 0	·1096
10. 6	·1101
10. 42	·1102
11. 0	·1097
13. 5	·1094
17. 21	·1096
22. 48	·1081
22. 56	·1088
23. 59	·1093
May 23	
0. 0	·1093
1. 2	·1090
2. 9	·1093
2. 47	·1096
3. 8	·1095
3. 22	·1092
3. 27	·1093
4. 12	·1099
6. 36	·1091
7. 55	·1088
9. 7	·1083
9. 47	·1074
10. 12	·1080
10. 22	·1078
10. 51	·1080
11. 30	·1072
13. 23	·1073
13. 37	·1075
13. 53	·1075
14. 2	·1077
14. 8	·1073
14. 18	·1076
15. 9	·1074

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 22	
0. 54	·00969
1. 50	·00954
2. 43	·00875
3. 23	·00854
3. 36	·00921
5. 54	·00880
8. 37	·00914
9. 0	·00896
10. 12	·00922
16. 49	·00954
19. 22	·00936
21. 5	·00916
22. 53	·00824
23. 59	·00734
May 23	
0. 0	·01694
1. 21	·01741
2. 15	·01722
3. 30	·01644
7. 21	·01235
9. 9	·01134
10. 15	·01063
11. 54	·01188
16. 11	·01755
16. 57	·01732
20. 11	·01724
	·01669
21. 5	·01641
22. 39	·01445
23. 59	·01154

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m		
May 22		
1. 40	60·0	61·1
3. 40	59·7	61·2
9. 40	60·7	61·2
21. 40	56·8	57·3
May 23		
1. 40	59·2	60·2
3. 40	61·5	63·4
9. 40	65·6	67·0
22. 23	61·2	62·2

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

May 20. The Photographic Traces for Declination and Horizontal Force were too faint for use.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′
May 23	
17. 18	·1081
18. 10	·1081
18. 52	·1079
	(†)
22. 23	·1065*
May 24	
8. 40	21. 32. 11*
21. 40	31. 50*
May 25	
1. 40	21. 44. 23*
3. 40	43. 58*
9. 50	31. 23*
21. 40	28. 52*
May 26	
1. 40	21. 41. 25*
3. 40	43. [illegible]*
9. 40	31. 54*
21. 40	30. 48*

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 23	
17. 18	·1081
18. 10	·1081
18. 52	·1079
	(†)
22. 23	·1065*
May 24	
8. 40	·1078*
21. 40	·1066*
May 25	
1. 40	·1066*
3. 40	·1080*
9. 50	·1073*
21. 40	·1058*
May 26	
1. 40	·1077*
3. 40	·1086*
9. 40	·1100*
21. 40	·1063*

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 24	
0. 30	·01[illegible]
2. 25.	·00676
4. 19	·00[illegible]
5. 41	·00[illegible]
	·00816
9. 18	·00[illegible]
10. 0	·00774
11. 30	·00777
14. 11	·00901
19. 4	·01[illegible]
20. 54	·01584
22. 45	·01[illegible]
May 25	
1. 17	·01[illegible]
2. 10	·01[illegible]
2. 49	·01[illegible]
5. 15	·00[illegible]
3. 38	·00[illegible]
7. 0	·00[illegible]
8. 38	·00[illegible]
7. 51	·01357
10. 6	·01423
11. 0	·01[illegible]
11. 48	·01562
12. 51	·01[illegible]
14. 20	·01[illegible]
19. 45	·01703
20. 20	·01[illegible]
22. 43	·01618
23. 49	·01[illegible]
May 26	
1. 15	·01574
3. 0	·01152
5. 17	·00783
	·00837
9. 15	·00784
9. 34	·00802
	·01164
11. 54	·01375
14. 7	·01664
16. 30	·01702
20. 24	·01709
	·01663

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet	Of V. F. Magnet
May 24		
8. 40	66·2	66·7
12. 40	61·7	64·1
13. 40	61·0	63·3
14. 40	60·0	62·2
15. 40	58·5	61·8
16. 40	59·[illegible]	61·2
17. 40	58·[illegible]	60·2
18. 40	58·1	61·2
19. 40	58·[illegible]	60·8
20. 40	60·[illegible]	62·0
21. 40	62·[illegible]	63·1
22. 40	63·2	62·6
23. 40	64·[illegible]	63·8
May 25		
0. 40	66·0	66·2
1. 40	66·8	67·1
2. 40	67·9	68·5
3. 40	68·0	68·2
4. 40	69·0	69·6
5. 40	70·[illegible]	70·[illegible]
6. 40	70·[illegible]	70·[illegible]
7. 40	70·[illegible]	72·[illegible]
8. 40	68·[illegible]	71·[illegible]
9. 40	67·[illegible]	70·8
10. 40	66·0	67·5
11. 40	65·0	66·8
21. 40	60·[illegible]	64·[illegible]
May 26		
1. 40	62·4	62·5
3. 40	63·6	64·4
9. 40	63·6	66·0
21. 40	60·[illegible]	58·6

Göttingen Mean Solar Time.	Western Declination.
h m	° ′
May 27	
1. 40	21. 40. 23*
3. 40	40. 37*
9. 40	34. [illegible]*
21. 40	32. 45*
May 28	
1. 40	21. 40. [illegible]*
3. 40	40. 46*
9. 40	35. 40*
21. 40	35. 34*
May 29	
1. 40	21. 41. 34*
3. 40	38. [illegible]*
9. 40	34. 55*
21. 40	34. 22*
May 30	
0. 58	21. 41. 10
1. 15	42. 40
3. 7	40. 50
3. 22	41. 0
4. 30	39. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 27	
1. 40	·1081*
3. 40	·1078*
9. 40	·1100*
21. 40	·1080*
May 28	
1. 40	·1107*
3. 40	·1106*
9. 40	·1095*
21. 40	·1085*
May 29	
1. 40	·1092*
3. 40	·1106*
9. 40	·1105*
21. 40	·1088*
May 30	
1. 36	·1084
2. 25	·1086
3. 7	·1082
4. 0	·1088
4. 5	·1086

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
May 26	
22. 30	·01[illegible]
23. 50	·01[illegible]
May 27	
2. 0	·01[illegible]
4. 17	·00745
	·00[illegible]
6. 4	·00[illegible]
9. 42	·00803
10. 57	·00[illegible]
11. 40	·00[illegible]
15. 9	·01[illegible]
18. 24	·01[illegible]
20. 30	·01[illegible]
21. 5	·01610
22. 7	·01[illegible]
23. 0	·01402
23. 59	·01216
May 28	
1. 40	·00[illegible]
3. 16	·00863
6. 34	·00955
7. 8	·00[illegible]
8. 7	·00[illegible]
9. 15	·00929
10. 0	·00[illegible]
11. 52	·01097
18. 17	·01855
	·01[illegible]
22. 25	·01796
23. 59	·01773
May 29	
0. 23	·01757
1. 21	·01724
4. 15	·01495
6. 11	·01287
7. 45	·01160
9. 30	·01124
10. 51	·01141
13. 15	·01227
15. 29	·01404
18. 51	·01806
	·01[illegible]
22. 38	·01738
	·01[illegible]
22. 56	·01[illegible]
23. 59	·01680
May 30	
1. 3	·01634
2. 10	·01563
4. 34	·01[illegible]
7. 0	·01[illegible]
8. 47	·00904

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet
May 26		
22. 30	[illegible]	[illegible]
23. 50	[illegible]	[illegible]
May 27		
1. 40	61·5	63·0
3. 40	63·8	65·5
9. 40	65·2	66·4
21. 40	57·8	58·2
May 28		
1. 40	63·4	64·6
3. 40	66·3	67·4
9. 40	68·0	69·7
21. 40	61·0	62·0
May 29		
1. 40	62·1	63·0
3. 40	64·2	65·3
9. 40	64·6	65·0
21. 40	61·0	62·2
May 30		
1. 40	63·0	65·2
3. 40	65·5	66·5
9. 40	56·8	57·0
22. 55	62·0	63·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
May 30 h m	° ′ ″
4. 45	21. 38. 15
5. 0	38. 20
6. 14	34. 40
6. 43	35. 10
7. 28	33. 0
8. 25	34. 30
9. 26	34. 40
10. 15	31. 30
10. 57	31. 10
11. 21	31. 50
11. 42	31. 30
12. 52	33. 50
16. 13	32. 55
17. 24	31. 30
17. 52	29. 50
19. 5	28. 45
20. 30	29. 10
21. 29	31. 45
22. 49	38. 20
23. 2	38. 30
23. 37	40. 35
May 31	
0. 7	21. 43. 20
0. 22	43. 30
1. 55	41. 50
2. 14	41. 0
2. 52	40. 25
4. 28	37. 50
5. 42	34. 20
6. 27	33. 50
7. 43	33. 40
8. 21	35. 0
10. 52	35. 0
11. 41	33. 50
12. 10	34. 20
13. 45	33. 50
17. 52	31. 55
19. 34	32. 40
22. 30	39. 0
22. 47	39. 10
23. 59	42. 0
June 1	(†)
1. 40	21. 41. 59*
3. 40	42. 45*
9. 40	35. 49*
10. 1	34. 45
14. 0	34. 30
15. 43	33. 30
18. 14	31. 50
18. 59	32. 20
19. 29	34. 0
19. 37	33. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
May 30 h m	
4. 14	·1082
4. 33	·1084
4. 46	·1079
5. 3	·1085
5. 31	·1081
6. 15	·1091
6. 26	·1087
6. 37	·1091
7. 7	·1081
7. 24	·1085
9. 12	·1089
9. 23	·1084
9. 45	·1086
9. 52	·1083
10. 19	·1080
10. 39	·1086
11. 15	·1090
11. 44	·1087
12. 24	·1091
13. 35	·1090
17. 10	·1097
19. 24	·1093
22. 13	·1073 (†)
May 31	
	(†)
7. 28	·1056
7. 52	·1071
9. 42	·1079
9. 54	·1085
11. 44	·1099
12. 7	·1094
12. 25	·1093
12. 29	·1086
14. 30	·1086
15. 7	·1088
18. 53	·1085
19. 56	·1072
20. 12	·1073
20. 48	·1066
22. 52	·1069
23. 59	·1066
June 1	
1. 40	·1071*
3. 40	·1071*
	(†)
5. 0	·1061
5. 10	·1062
5. 27	·1068
6. 28	·1069
6. 52	·1073
7. 10	·1070
8. 2	·1082
8. 22	·1083

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
May 30 h m	
9. 53	·00876
11. 21	·00928
13. 24	·01120
18. 3	·01781
	·01723
20. 38	·01747
	·01643
21. 52	·01689
23. 28	·01628
May 31	
0. 0	·01564
3. 13	·01082
5. 5	·01017
6. 21	·01015
7. 10	·01020
8. 35	·01084
9. 31	·01169
10. 38	·01336
12. 56	·01715
	·01643
15. 9	·01704
19. 38	·01697
	·01120
21. 9	·01115
22. 5	·01040
23. 49	·00756
June 1	
1. 40	·00724
2. 55	·00760
5. 34	·00781
7. 52	·00835
8. 50	·00841
10. 9	·00937
14. 0	·01434
16. 52	·01772
	·01665
22. 10	·01698
23. 59	·01555

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 30 h m	°	°
May 31		
10. 1	61 ·3	63 ·0
12. 40	58 ·2	61 ·1
13. 40	57 ·3	60 ·2
14. 40	57 ·3	59 ·9
15. 40	57 ·4	58 ·7
16. 40	57 ·7	59 ·3
17. 40	57 ·3	59 ·2
18. 40	57 ·4	58 ·9
19. 40	57 ·7	58 ·7
20. 40	59 ·0	59 ·2
21. 40	61 ·0	60 ·7
22. 40	62 ·0	62 ·0
23. 40	62 ·9	63 ·0
June 1		
0. 40	63 ·8	64 ·2
1. 40	64 ·2	65 ·2
2. 40	65 ·2	66 ·2
3. 40	65 ·8	66 ·6
4. 40	66 ·0	67 ·2
5. 40	66 ·2	67 ·2
6. 40	66 ·0	67 ·1
7. 40	65 ·0	67 ·0
8. 40	64 ·5	66 ·0
9. 40	64 ·2	65 ·5
10. 40	63 ·0	65 ·0

Göttingen Mean Solar Time.	Western Declination.
June 1 h m	° ′ ″
19. 59	21. 34. 40
20. 48	33. 0
22. 52	37. 30
23. 15	38. 50
23. 59	39. 10
June 2	
0. 0	21. 39. 10
2. 52	38. 30
4. 41	37. 50
5. 40	36. 30
7. 3	35. 30
8. 15	36. 0
10. 0	34. 50
10. 13	34. 55
10. 34	33. 30
11. 2	32. 50
11. 27	33. 5
11. 59	32. 25
12. 41	33. 40
13. 12	32. 20
13. 40	31. 50
14. 49	32. 0
15. 58	32. 40
16. 24	32. 0
17. 0	32. 50
17. 54	31. 50
17. 59	30. 50
19. 42	32. 0
22. 30	28. 30
	(†)

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 1 h m	
8. 50	·1092
9. 11	·1088
9. 55	·1094
10. 24	·1093
10. 55	·1096
11. 25	·1096
11. 41	·1100
12. 22	·1097
14. 4	·1105
14. 8	·1096
15. 10	·1100
15. 13	·1097
15. 52	·1100
16. 1	·1097
17. 14	·1099
18. 43	·1100
19. 0	·1094
19. 26	·1091
20. 2	·1091
23. 22	·1074
23. 59	·1076
June 2	
0. 40	·1079
1. 21	·1079
2. 6	·1076
2. 26	·1079
3. 38	·1075
4. 41	·1080
5. 0	·1078
5. 40	·1081
5. 52	·1079
6. 7	·1078
6. 26	·1083
7. 0	·1082
7. 25	·1083
7. 36	·1086
7. 48	·1084
8. 21	·1088
8. 36	·1084
9. 7	·1090
10. 8	·1082
10. 22	·1084
10. 38	·1096
11. 30	·1082
12. 4	·1084
12. 7	·1082
12. 23	·1084
12. 32	·1088
12. 38	·1087
14. 7	·1089
14. 15	·1086
16. 5	·1091
16. 28	·1089
17. 12	·1094

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 2	
0. 38	·01483
2. 12	·01217
4. 37	·00782
9. 45	·00764
11. 19	·00835
13. 54	·01117
17. 9	·01563
18. 52	·01737
19. 39	·01765
	·01663
21. 55	·01697
23. 7	·01674
23. 54	·01621

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 1 h m	°	°
11. 40	62 ·0	63 ·5
21. 40	60 ·4	59 ·6
June 2		
1. 40	64 ·0	64 ·5
3. 40	66 ·0	66 ·3
9. 40	66 ·0	66 ·7
21. 40	60 ·2	62 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

May 24. The Declination Time-piece was accidentally injured, and was away for repair till May 30.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
[illegible]	[illegible]	June 2 [illegible]		[illegible]		[illegible]		
		17. [illegible]	·1[illegible]					
		18. 48	·1[illegible]					
		22. 15	·1092					
		22. 39	·1[illegible]					
		22. 41	·1[illegible]					
June 3		June 3		June 3		June 3		
	(†)		(†)					
1. 12	21. 40. [illegible]	1. 6	·1088	0. 17	·01617	1. 40	62·8	64·8
2. 38	39. 55	1. 46	·1086	2. 30	·01448	3. 40	[illegible]·0	66·8
3. 30	39. 0	2. 25	·1[illegible]	6. 21	[illegible]	9. 40	67·0	69·0
5. 28:	36. 50	4. 24	·1[illegible]	7. 0	·00849	21. 46	63·2	64·2
7. 0	37. 20	5. 10	·1084	10. 12	·00806			
7. 55	36. 50	5. 31	·1081	13. 50	·01015			
8. 45	37. 30	6. 12	·1081	17. 35	·01365			
9. 45	34. 30	6. 53	·1085	19. 29	·01617			
11. 47	34. 0	7. 13	·1[illegible]	20. 38	·01[illegible]			
12. [illegible]	33. 40	7. 26	·1086	22. [illegible]	·01[illegible]			
12. 32	34. 30	8. 22	·1[illegible]	23. 39	·01[illegible]			
13. 12	34. 30	9. 10	·1[illegible]					
13. 53	32. 50	9. 24	·1[illegible]					
14. 13	33. 25	[illegible]	·1[illegible]					
14. 22	32. 25	11. 12	·1[illegible]					
15. 28	35. 45	13. [illegible]	·1[illegible]					
15. 57	35. 20	13. [illegible]	·1[illegible]					
16. 32	40. 50	14. 24	·1[illegible]					
17. 22	30. 0							
	***	14. 36	·1[illegible]					
[illegible]. 3	30. 0	15. 30	·1[illegible]					
[illegible]. 12	31. 50							
[illegible]. 22	30. 25	16. [illegible]	·1[illegible]					
16. [illegible]	2[illegible]. 30	16. 15	·1[illegible]					
20. 47	32. 40	16. 48	·1[illegible]					
21. 5	32. 0	17. 14	·1[illegible]					
21. [illegible]	33. 40							
22. 22	33. 55	18. 10	·1[illegible]					
	(†)	18. [illegible]	·1[illegible]					
		20. 15	·1[illegible]					
		20. 24	·1[illegible]					
		20. 53	·1080					
		21. 3	·1[illegible]					
		21. 47	·1[illegible]					
		22. 10	·1[illegible]					
		22. 36	·1[illegible]					
			[illegible]					
June 4		June 4		June 4		June 4		
1. 40	21. 40. 27*			1. 21	·01384	1. 40	67·5	69·2
3. 40	37. 48	1. 40	·1[illegible]	3. 30	{·00946	3. 40	71·0	72·7
9. 40	34. 11*	3. 7	·1[illegible]		{·00998	9. 40	72·3	73·3
21. 40	32. 2*	3. 18	·1[illegible]	5. 24	·01[illegible]	21. 40	65·4	66·6
		3. 36	·1[illegible]	8. 0	·00935			
		4. 5	·1052	9. 10	·00[illegible]55			
		4. 30	·1052	10. 21	·01[illegible]			
		4. 38	·1[illegible]	12. 5	·01[illegible]			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
[illegible]	[illegible]	June 4		June 4		[illegible]		
		5. 55	·1[illegible]					
		6. 15	·1055	16. 38	{·01[illegible]			
		7. 10	·1061		{·01[illegible]			
		8. 39	·1[illegible]	20. 45	·01840			
		9. 40	·1[illegible]	21. 49	·01820			
		10. 24	·1[illegible]	22. 25	·01[illegible]			
		11. 0	·1[illegible]	23. 59	·01525			
		12. 54	·1071					
		13. 48	·1066					
		14. 38	·1072					
		15. 22	·1071					
		16. 33	·1081					
		16. 48	·1069					
		17. 22	·1078					
		18. 0	·1081					
		18. 23	·1079					
		18. 44	·1081					
		20. 51	·1[illegible]					
		21. 49	·1[illegible]					
		22. 10	·1[illegible]					
		22. 32	·1[illegible]					
		23. 9	·1031					
		23. [illegible]	·1[illegible]					
		23. [illegible]	·1036					
June 5		June 5		June 5		June 5		
0. 41	21. 41. 20	0. 0	·1[illegible]	0. 45	·01340	1. 40	[illegible]·1	[illegible]·0
1. 0	42. 15	2. 21	·1047		{·00[illegible]	3. 40	[illegible]·4	[illegible]·5
1. 29	39. 50	2. 43	·1056	2. 49	{·01[illegible]	9. 40	[illegible]·6	[illegible]·5
2. 7	38. 45	3. 42	·1047	4. 18	·01035	21. 40	[illegible]·1	[illegible]·0
2. 40	40. 15	4. 15	·1[illegible]	6. 0	·00[illegible]6			
3. 0	38. 10	4. 43	·1[illegible]	7. 54	·00[illegible]54			
4. 6	35. 40	5. 24	·1050	10. 30	·01034			
4. 52	35. 40	5. 39	·1043	12. 11	·01142			
5. 24	34. 0	6. 22	·1048	14. 19	·01363			
5. 55	33. 5	7. 15	·1049	17. 22	{·01[illegible]15			
6. 58	32. 30	7. 47	·1[illegible]		{·01[illegible]45			
7. 26	30. 45	8. 28	·1[illegible]	19. 30	·01776			
9. 0	33. 30	8. 55	·1[illegible]	21. 55	·01724			
9. 40	32. 30	9. 17	·1[illegible]	23. 51	·01[illegible]			
10. 41	34. 45	10. 22	·1[illegible]					
11. 56	34. 45	12. 30	·1[illegible]					
14. 5	34. 20	13. [illegible]	·1[illegible]					
15. 20	35. 20	18. 16	·1073					
18. 6	31. 20	19. 17	·1065					
19. 12	32. 0	19. 52	·1067					
20. 10	31. 40	21. [illegible]	·1[illegible]					
20. 41	32. 10	22. 21	·1056					
21. 57	29. 50	22. 55	·1046					
23. 0	33. 0	23. 37	·1046					
23. 41	34. 55							
June 6		June 6		June 6		June 6		
1. 44	21. 40. 32*	1. 44	·1[illegible]	1. 44	·01201*	1. 44	[illegible]·5	[illegible]·6
3. 40	40. 43*	3. 40	·1[illegible]	3. 40	·00979*	3. 40	[illegible]·4	[illegible]·6
9. 40	33. 54*	9. 40	·1081*	6. [illegible]	·00862	9. 40	[illegible]·0	[illegible]·2
22. 30	35. 28*	22. 30	·1087*	7. 20	·00924	22. 30	66·7	68·0
				9. 34	·01083			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
June 7	
0. 44	21. 40. 30
1. 10	40. 30
1. 29	40. 0
2. 34	39. 45
3. 28	38. 50
4. 27	36. 30
4. 44	36. 15
5. 29	33. 30
6. 46	35. 40
8. 22	35. 0
9. 30	33. 20
11. 6	36. 40
11. 37	35. 35
12. 40	37. 20
13. 50	34. 30
17. 13	31. 55
18. 21	32. 0
19. 15	30. 40
19. 45	29. 0
21. 28	30. 30
21. 57	32. 20
22. 0	32. 0
22. 25	32. 40 (†)
June 8	
	(†)
1. 1	21. 40. 30
	***
2. 29	39. 0
2. 41	39. 50
	***
3. 45	37. 45
4. 0	38. 0
	***
5. 4	34. 30
	***
5. 27	34. 0
	***
6. 21	36. 25
	***
7. 42	36. 40
8. 15	36. 10
8. 46	36. 55
9. 0	36. 0
10. 13	36. 55
11. 57	35. 50
12. 15	36. 30
12. 43	35. 30
14. 2	34. 35

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
June 7	
0. 41	·1090
1. 12	·1085
1. 53	·1083
2. 36	·1086
3. 47	·1076
4. 10	·1077
4. 32	·1071
8. 0	·1082
9. 32	·1077
12. 11	·1086
15. 30	·1080
18. 54	·1084
19. 3	·1079
20. 22	·1074
21. 43	·1064
22. 11	·1066
22. 46	·1065 (†)
June 8	
	(†)
1. 15	·1077
1. 38	·1078
2. 26	·1076
2. 43	·1074
2. 54	·1076
3. 6	·1080
3. 45	·1078
	***
8. 7	·1090
8. 38	·1095
	***
11. 52	·1106
	***
12. 9	·1110
12. 38	·1105
12. 58	·1107
13. 10	·1111
15. 9	·1105
17. 52	·1107
18. 20	·1102
18. 38	·1092
20. 31	·1079

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 6 h m	
12. 0	·01317
15. 9	·01766 / ·01722
19. 20	·01733
21. 49	·01674
23. 18	·01684
June 7	
0. 0	·01696
2. 21	·01605
7. 6	·01331
8. 35	·01320
9. 54	·01324
10. 30	·01306
13. 5	·01701 / ·01595
14. 17	·01660 / ·01618
15. 3	·01673 / ·01637
22. 0	·01665
23. 59	·01454
June 8	
1. 15	·01442
1. 40	·01 [illegible] / ·01256
2. 17	·01238
3. 11	·01135
5. 9	·00789
5. 46	·00717 / ·00845
7. 52	·00776
8. 39	·00796
11. 0	·00975
15. 25	·01525
17. 3	·01565 / ·01517
19. 17	·01575 / ·01541
20. 50	·01566
21. 49	·01538
23. 59	·01415

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
June 7		
7. 38	70·2	71·6
12. 40	66·7	68·1
13. 40	66·0	67·3
14. 40	65·2	66·6
15. 40	64·7	66·2
16. 40	63·7	65·4
17. 40	63·3	64·9
18. 40	62·8	64·4
19. 40	63·1	64·1
20. 40	63·7	63·7
21. 40	64·5	63·5
22. 40	64·7	64·2
23. 40	64·7	64·2
June 8		
0. 40	65·5	65·2
1. 40	66·1	66·4
2. 40	66·9	67·2
3. 40	67·4	68·0
4. 40	68·2	69·0
5. 40	68·2	69·2
6. 40	68·0	69·0
7. 40	67·9	68·6
8. 40	68·0	68·5
9. 40	66·8	68·2
10. 40	66·3	67·5
11. 40	65·0	66·7
21. 40	61·2	61·5

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
June 8	
15. 21	21. 35. 0
16. 23	32. 55
18. 15	31. 50
18. 30	30. 30
20. 29	28. 0
21. 41	33. 10 (†)
June 9	
	(†)
1. 13	21. 37. 10
2. 15	37. 0
2. 51	39. 0
	***
3. 43	36. 30
4. 1	36. 20
4. 16	37. 30
4. 45	37. 20
4. 55	36. 30
5. 10	37. 0
5. 25	36. 0
5. 37	35. 45
5. 51	34. 35
6. 22	36. 0
7. 56	34. 50
8. 14	35. 20
8. 28	34. 45
10. 30	35. 20
10. 52	35. 15
11. 12	36. 20
14. 52	35. 40
17. 40	32. 50
18. 43	33. 30
19. 28	33. 0
19. 37	32. 40
19. 47	33. 25
20. 37	32. 20
21. 47	32. 40
22. 6	34. 20
	***
23. 59	41. 10
June 10	
0. 0	21. 41. 10
0. 17	42. 0
2. 24	40. 30
3. 52	37. 0
4. 11	37. 50
4. 30	36. 30
4. 54	35. 35
5. 19	36. 0
5. 55	34. 55
6. 30	36. 30
6. 52	34. 45
7. 36	34. 30
8. 45	36. 20
9. 54	37. 0
10. 13	36. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
June 8	
21. 30	·1078 (†)
June 9	
0. 15	·1076
	***
2. 22	·1082
2. 28	·1073
2. 38	·1081
3. 8	·1081
3. 23	·1084
3. 36	·1082
4. 7	·1083
4. 25	·1086
8. 4	·1099
	***
9. 58	·1096
	***
14. 24	·1107
16. 3	·1112
16. 47	·1112
17. 50	·1107
19. 15	·1093
21. 11	·1084
22. 5	·1083
22. 21	·1085
23. 59	·1075
June 10	
0. 0	·1075
0. 24	·1076
0. 42	·1080
1. 7	·1080
1. 45	·1084
2. 52	·1089
4. 6	·1079
4. 38	·1082
5. 13	·1078
6. 6	·1086
	***
6. 36	·1084
	***
6. 42	·1080
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
June 9	
1. 14	·01318
2. 50	·01135
4. 0	·00949
5. 53	·00752
7. 9	·00710
7. 37	·00721
8. 26	·00761
11. 53	·01198
14. 0	·01416 / ·01383
15. 56	·01481
18. 39	·01569 / ·01509
21. 40	·01541 / ·01237
23. 34	·01144
June 10	
0. 0	·01142
1. 11	·01040
3. 25	·00722
4. 49	·00715
6. 0	·00738
8. 31	·00677
10. 15	·00649
11. 0	·00678
12. 29	·00829
14. 30	·01096
18. 3	·01663 / ·01583
21. 53	·01621
23. 3	·01616
23. 59	·01560

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
June 9		
1. 43	64·0	65·0
3. 40	65·7	66·7
9. 40	64·0	65·0
21. 40	60·7	60·0
June 10		
1. 40	63·0	63·0
3. 40	64·7	65·0
9. 40	66·0	67·2
21. 46	60·3	60·4

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 4 and 6. The Photographic Traces of the Declination Magnet were too faint for use.

June 6. The Photographic Traces of the Horizontal Force Magnet were too faint for use.

Göttingen Mean Solar Time.	Western Declination.
June 10	
h m	° ′ ″
10. 27	21. 37. 30
10. 35	36. 50
11. 29	37. 30
11. 36	37. 0
12. 0	36. 55
12. 15	36. 0
13. 59	37. 50
14. 21	36. 50
15. 11	37. 30
15. 20	37. 0
15. 44	37. 20
16. 10	36. 0
16. 42	36. 0
17. 7	34. 0
17. 40	34. 0
18. 19	33. 0
18. 29	33. 20
18. 45	33. 20
19. 0	32. 30
19. 11	32. 50
19. 43	29. 15
19. 51	29. 50
20. 15	29. 0
20. 28	29. 10
20. 45	28. 15
21. 22	30. 15
21. 35	30. 15
22. 15	34. 0
22. 32	34. 10
22. 49	37. 20
23. 9	37. 50
23. 21	40. 10
23. 29	40. 10
23. 50	42. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 10	
h m	
6. 53	·1083
	***
12. 51	·1095
12. 56	·1092
13. 42	·1096
14. 37	·1096
17. 30	·1105
	***
18. 46	·1099
	***
19. 8	·1091
	***
19. 30	·1092
20. 44	·1081
23. 8	·1075

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet

Göttingen Mean Solar Time.	Western Declination.
June 11	
h m	° ′ ″
7. 13	21. 33. 0
	***
7. 41	31. 50
7. 47	32. 20
7. 53	31. 50
8. 26	32. 45
8. 48	31. 40
9. 0	32. 30
9. 12	31. 45
	***
10. 49	32. 20
11. 33	33. 30
13. 43	33. 25
	***
15. 37	33. 30
16. 15	32. 20
	***
17. 45	30. 0
18. 13	30. 0
19. 15	28. 40
20. 10	33. 5
21. 20	29. 20
23. 0	32. 35
23. 59	36. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 12	
0. 0	·1085
2. 2	·1078
2. 26	·1082
3. 7	·1077
3. 21	·1078
3. 30	·1075
4. 7	·1074
4. 52	·1082
5. 15	·1082
5. 33	·1086
5. 45	·1084
6. 38	·1085
6. 50	·1089
	***
11. 30	·1085
	***
17. 35	·1109
18. 36	·1108
19. 6	·1101
19. 7	·1079
21. 24	·1076
23. 59	·1062

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 12	
0. 30	·01324
1. 50	·01162
2. 53	·00974
4. 24	·00640
	·00696
6. 19	·00720
9. 25	·00636
10. 30	·00660
11. 39	·00762
14. 10	·01153
16. 45	·01615
	·01543
18. 54	·01535
22. 10	·01555
22. 53	·01535
23. 59	·01450

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet
June 12		
1. 40	61 ·4	62 ·3
3. 40	63 ·3	64 ·4
9. 40	66 ·2	67 ·0
21. 40	59 ·2	58 ·2

Göttingen Mean Solar Time.	Western Declination.
June 11	
0. 43	21. 42. 0
0. 59	43. 0
1. 9	41. 0
	***
2. 43	38. 0
3. 12	35. 50
3. 22	36. 30
3. 37	38. 0
4. 7	38. 0
4. 24	35. 20
4. 45	37. 45
5. 0	35. 20
5. 22	34. 30
5. 29	35. 0
	***
5. 51	32. 50
5. 55	33. 0
6. 11	32. 0
	***
6. 31	33. 30
	***
6. 58	32. 45

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 11	
0. 54	·1081
1. 15	·1086
2. 10	·1083
2. 39	·1076
3. 51	·1083
5. 15	·1075
5. 32	·1077
6. 7	·1073
8. 30	·1086
10. 8	·1081
	***
14. 41	·1093
	***
17. 32	·1106
18. 50	·1104
	***
19. 35	·1101
20. 37	·1100
22. 40	·1086
23. 21	·1088
23. 59	·1085

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 11	
2. 30	·01514
2. 19	·01395
6. 10	·00881
7. 26	·00676
9. 15	·00640
10. 10	·00684
11. 7	·00743
13. 51	·01077
17. 5	·01580
	·01526
19. 34	·01535
21. 52	·01502
22. 55	·01515
23. 59	·01418

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet
June 11		
1. 40	62 ·6	63 ·6
3. 40	66 ·4	66 ·2
9. 40	68 ·2	68 ·2
21. 40	61 ·2	60 ·2

Göttingen Mean Solar Time.	Western Declination.
June 13	
0. 12	21. 39. 55
1. 2	39. 0
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 13	
0. 0	·1062
1. 25	·1074
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 13	
1. 0	·01282
2. 19	·01060
4. 7	·00643
	·00701

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet
June 13		
1. 40	63 ·0	63 ·2
3. 40	66 ·3	66 ·2
9. 40	68 ·0	68 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 13		June 13		June 13		June 13		
h m	° ′ ″	h m		h m		h m		
2. 8	21. 37. 30	1. 52	·1061	7. 0	·00736	22. 40	61 ·2	59 ·6
2. 28	39. 20		***	8. 55	·00674			
2. 36	38. 30	2. 44	·1070	10. 14	·00677			
2. 46	39. 0	3. 10	·1063	11. 22	·00735			
2. 58	38. 20	4. 0	·1062	14. 21	·01096			
3. 15	38. 25	4. 11	·1070	17. 17	·01623			
3. 30	36. 30	5. 28	·1077		·01545			
4. 22	34. 15	5. 40	·1075	20. 24	·01589			
4. 41	36. 50	6. 6	·1076	23. 4	·01594			
5. 45	35. 30	6. 32	·1072					
6. 2	34. 20	7. 14	·1074					
7. 5	33. 30	7. 52	·1069					
7. 34	33. 20	8. 16	·1072					
8. 26	34. 40	8. 27	·1070					
8. 45	34. 0	12. 12	·1077					
9. 0	34. 50	17. 10	·1083					
9. 13	34. 0	18. 42	·1084					
	***	18. 43	·1078					
15. 12	34. 35	19. 10	·1078					
15. 22	35. 30	19. 22	·1072					
15. 48	34. 45	20. 24	·1071					
16. 59	34. 55	23. 42	·1066					
18. 13	33. 50	23. 59	·1063					
18. 45	32. 45							
20. 0	32. 40							
21. 0	29. 45							
21. 36	29. 35							
22. 56	31. 50							
23. 35	34. 0							
23. 59	34. 20							
June 14		June 14		June 14		June 14		
0. 0	21. 34. 20	0. 0	·1063	0. 0	·01547	9. 40	66 ·9	68 ·5
1. 47	37. 30	0. 53	·1060	1. 0	·01433	12. 40	64 ·6	65 ·9
5. 14	34. 0	1. 37	·1065	1. 39	·01301	13. 40	63 ·7	64 ·7
12. 30	31. 50	3. 40	·1070	3. 54	·00685	14. 40	62 ·2	64 ·1
13. 29	34. 20	5. 38	·1067		·00743	15. 40	61 ·8	63 ·5
14. 24	35. 10	6. 16	·1071	7. 10	·00701	16. 40	61 ·7	63 ·2
15. 0	37. 30	6. 34	·1067	8. 39	·00659	17. 40	60 ·8	62 ·6
15. 52	34. 30	6. 40	·1068	10. 15	·00674	18. 40	60 ·7	62 ·7
16. 42	33. 30	7. 31	·1066	12. 21	·00934	19. 40	61 ·4	62 ·7
17. 15	31. 10	8. 18	·1070	15. 32	·01418	20. 40	63 ·6	62 ·4
	***	8. 34	·1069		·01364	21. 40	65 ·0	63 ·4
18. 40	32. 10	9. 4	·1072	17. 5	·01560	22. 40	65 ·4	64 ·3
19. 23	29. 35	9. 25	·1069	19. 31	·01617	23. 40	66 ·0	65 ·1
19. 44	29. 10	10. 10	·1076		·01137			
19. 53	29. 55	10. 34	·1078	20. 29	·01144			
20. 28	29. 0	10. 46	·1074		·00949			
20. 41	30. 0	11. 11	·1076	21. 52	·00937			
20. 58	29. 20	11. 17	·1079	23. 59	·00781			
21. 54	30. 25	11. 39	·1080					
	***	11. 52	·1078					
23. 15	35. 30	12. 2	·1083					
23. 59	36. 40	12. 30	·1076					
		14. 13	·1079					
		14. 37	·1078					
		15. 44	·1084					
		18. 22	·1085					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		June 14						
		h m						
		18. 58	·1085					
		19. 40	·1074					
		22. 14	·1063					
		23. 59	·1059					
June 15		June 15		June 15		June 15		
0. 0	21. 36. 40	0. 0	·1059	1. 14	·00974	0. 40	66 ·3	66 ·2
1. 42	36. 20	3. 49	·1061	5. 0	·00623	1. 40	67 ·0	67 ·0
1. 44	37. 0	7. 26	·1073	7. 17	·00654	2. 40	67 ·2	67 ·7
2. 20	36. 30	11. 15	·1080	9. 0	·00621	3. 40	68 ·0	68 ·6
2. 36	35. 40	11. 44	·1077	9. 56	·00641	4. 40	68 ·8	69 ·1
3. 16	34. 45	12. 14	·1080	10. 30	·00678	5. 40	69 ·0	70 ·0
4. 10	34. 50	12. 40	·1079	12. 5	·00852	6. 40	69 ·2	70 ·1
4. 22	36. 30	13. 13	·1081	14. 36	·01237	7. 40	69 ·0	70 ·5
4. 38	35. 30	13. 44	·1086	16. 23	·01540	8. 40	68 ·8	70 ·0
4. 45	36. 45	14. 40	·1083		·01522	9. 40	67 ·5	69 ·0
5. 7	35. 30	16. 0	·1087	20. 9	·01484	10. 40	66 ·8	68 ·2
5. 24	36. 0	16. 30	·1091	22. 13	·01514	11. 40	66 ·0	67 ·3
6. 2	34. 40	18. 53	·1098	23. 59	·01380	21. 40	63 ·0	62 ·0
6. 22	34. 50	19. 24	·1088					
6. 39	34. 30	20. 0	·1087					
6. 53	35. 10	21. 15	·1077					
7. 27	33. 30	23. 22	·1064					
8. 40	34. 10	23. 59	·1066					
9. 44	33. 55							
11. 11	35. 45							
11. 36	34. 0							
11. 49	35. 50							
12. 23	34. 30							
13. 2	35. 30							
14. 40	33. 55							
15. 56	33. 50							
17. 36	32. 45							
17. 51	30. 30							
18. 22	33. 45							
19. 30	34. 0							
21. 0	30. 45							
22. 14	34. 20							
22. 30	34. 40							
23. 16	37. 30							
23. 59	39. 0							
June 16		June 16		June 16		June 16		
0. 0	21. 39. 0	0. 16	·1066	0. 26	·01342	1. 40	66 ·2	66 ·6
0. 40	38. 30	1. 10	·1062	2. 10	·01120	3. 40	68 ·3	69 ·2
1. 0	36. 50	1. 39	·1069	4. 6	·00725	9. 40	67 ·0	68 ·3
2. 13	38. 0	2. 21	·1064	5. 13	·00598	21. 40	62 ·5	64 ·3
2. 50	36. 30	2. 38	·1069	6. 1	·00556			
3. 12	37. 0	2. 52	·1066		·00642			
3. 22	36. 5	3. 37	·1073	7. 30	·00604			
4. 20	35. 30	3. 50	·1070	9. 0	·00622			
4. 39	35. 40	4. 9	·1072	10. 33	·00694			
5. 0	34. 0	4. 24	·1069	13. 5	·00917			
5. 42	33. 40	4. 47	·1075	17. 30	·01554			
6. 39	36. 5	4. 53	·1069	19. 18	·01482			
7. 9	34. 0	5. 7	·1074	20. 45	·01534			
7. 31	33. 35	5. 10	·1069	23. 55	·01441			
7. 53	35. 0	5. 37	·1078					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.
June 16	
h m	° ′ ″
8. 19	21. 34. 30
9. 8	36. 0
9. 59	34. 30
10. 19	36. 0
10. 29	34. 45
10. 40	34. 40
	***
11. 19	29. 50
11. 58	29. 0
12. 25	33. 0
	***
14. 29	34. 5
14. 48	35. 45
15. 30	34. 30
15. 58	35. 40
	***
18. 12	33. 30
18. 31	32. 20
19. 49	33. 30
20. 18	33. 10
	***
22. 2	36. 30
22. 15	36. 20
23. 59	39. 0
June 17	
0. 0	21. 39. 0
1. 15	39. 20
3. 15	38. 30
4. 46	34. 40
5. 28	33. 40
6. 25	31. 20
7. 29	29. 45
8. 15	31. 0
8. 31	30. 30
10. 22	35. 40
11. 31	35. 0
12. 27	35. 30
12. 44	36. 30
13. 12	37. 40
13. 39	42. 30
14. 13	39. 0
14. 28	38. 30
15. 0	35. 0
15. 29	34. 50
16. 12	33. 30
16. 30	33. 50
16. 42	32. 50
16. 55	34. 25

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 16	
h m	
6. 0	·1072
	***
7. 42	·1079
	***
7. 56	·1076
	***
8. 24	·1080
	***
8. 39	·1079
	***
8. 56	·1082
	***
9. 9	·1079
9. 30	·1082
9. 51	·1081
10. 7	·1086
10. 20	·1081
11. 0	·1082
11. 16	·1080
11. 35	·1085
11. 56	·1076
	***
13. 5	·1082
14. 15	·1083
14. 37	·1088
16. 45	·1093
17. 45	·1092
18. 48	·1088
19. 19	·1088
22. 6	·1079
22. 37	·1073
23. 10	·1075
23. 51	·1071
June 17	
0. 0	·1066
0. 39	·1073
0. 52	·1068
1. 48	·1063
2. 34	·1072
3. 10	·1068
	***
3. 36	·1071
	***
4. 45	·1066
4. 58	·1071
8. 52	·1065
12. 37	·1076
13. 10	·1083
13. 17	·1080
14. 8	·1080
14. 44	·1088
16. 27	·1093
16. 36	·1090
17. 1	·1088
	***
17. 6	·1092
17. 40	·1093

Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
June 17	
0. 15	·01449
1. 24	·01346
2. 2	·01240
4. 49	·00684
	·00744
6. 30	·00696
9. 0	·00743
10. 4	·00785
14. 25	·01262
16. 7	·01557
16. 45	·01518
22. 24	·01555
23. 59	·01482
June 18	
1. 12	·01483
1. 20	·01398
2. 22	·01269
3. 15	·01122
5. 29	·00643
	·00718
8. 0	·00660
9. 9	·00624
10. 18	·00643
13. 11	·01016
16. 30	·01584
	·01558
21. 39	·01547
22. 11	·01536
23. 18	·01435
June 19	
0. 0	·01360
1. 9	·01194
2. 42	·00739
	·00795
7. 9	·00722

Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
June 17		
1. 40	66 ·6	68 ·2
3. 40	69 ·3	71 ·0
9. 40	70 ·5	73 ·5
21. 40	63 ·0	64 ·3
June 18		
1. 40	67 ·0	68 ·4
3. 40	69 ·7	71 ·2
9. 40	71 ·0	73 ·5
21. 40	65 ·0	66 ·0
June 19		
1. 40	72 ·0	73 ·0
3. 40	75 ·3	76 ·2
9. 40	76 ·2	77 ·5
21. 40	69 ·0	71 ·0

Gottingen Mean Solar Time.	Western Declination.
June 17	
h m	° ′ ″
17. 10	21. 32. 45
17. 13	33. 40
17. 56	32. 30
18. 51	32. 30
19. 26	34. 40
20. 58	33. 5
21. 13	35. 0
22. 27	38. 0
22. 48	40. 20
	(†)
June 18	
	(†)
1. 12	21. 38. 30
2. 26	36. 0
2. 43	34. 0
2. 54	36. 30
3. 17	34. 0
3. 35	35. 50
4. 0	33. 20
	***
5. 0	32. 40
5. 15	31. 30
6. 6	31. 30
6. 28	30. 10
6. 54	31. 0
7. 10	30. 30
	***
8. 16	31. 30
8. 29	30. 50
8. 43	31. 50
9. 1	32. 10
9. 15	33. 30
9. 30	33. 20
10. 11	35. 10
10. 39	34. 0
11. 5	35. 20
11. 13	34. 30
12. 54	34. 40
13. 12	33. 55
13. 43	35. 20
14. 13	34. 0
14. 29	34. 40
15. 9	34. 0
16. 12	34. 50
18. 0	32. 0
20. 15	34. 50
20. 55	33. 40
21. 56	35. 30
22. 51	36. 55
	(†)
June 19	
0. 49	21. 35. 10
1. 30	37. 40
2. 37	35. 30
2. 53	35. 35
3. 10	34. 45

Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 17	
h m	
18. 46	·1090
19. 26	·1089
19. 48	·1082
20. 40	·1086
22. 8	·1083
23. 30	·1076
June 18	
0. 12	·1074
0. 29	·1077
0. 40	·1075
0. 54	·1076
3. 25	·1079
6. 0	·1073
6. 19	·1079
6. 52	·1077
	***
7. 0	·1080
	***
8. 4	·1076
	***
11. 15	·1081
11. 40	·1080
16. 26	·1091
16. 50	·1093
17. 52	·1096
20. 49	·1096
23. 10	·1084
June 19	
0. 58	·1064
1. 36	·1068
1. 49	·1066
2. 18	·1068
2. 41	·1067

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 19		June 19		June 19				
h m	° ′ ″	h m		h m		h m	°	°
3. 30	21. 35. 0	3. 36	·1068	8. 26	·00681			
4. 7	33. 35	4. 0	·1071	10. 7	·00730			
	***	6. 49	·1079	12. 22	·00953			
4. 45	36. 35	9. 8	·1078	15. 19	·01477			
5. 13	35. 50	9. 18	·1076	17. 0	·01695			
	***	9. 38	·1080	17. 28	·01726			
7. 40	34. 50	12. 30	·1088		·01624			
7. 54	35. 40	13. 9	·1086	20. 0	·01640			
8. 28	34. 0	13. 25	·1089	22. 15	·01544			
8. 40	34. 50	13. 47	·1095	23. 59	·01405			
10. 36	36. 0	14. 45	·1097					
11. 9	35. 35	15. 12	·1103					
11. 30	36. 30	15. 37	·1100					
13. 3	35. 20	17. 26	·1107					
13. 30	37. 10	17. 37	·1104					
13. 45	36. 30	17. 55	·1106					
14. 12	36. 50	18. 12	·1116					
14. 45	39. 20	18. 42	·1112					
15. 5	38. 20	19. 6	·1116					
15. 45	38. 30	19. 27	·1113					
15. 58	37. 20	20. 22	·1111					
17. 0	35. 30	20. 37	·1113					
17. 29	33. 30	20. 40	·1112					
17. 58	34. 20	20. 50	·1113					
19. 13	31. 35	21. 22	·1108					
20. 43	31. 50	21. 52	·1093					
21. 36	29. 50	22. 25	·1083					
23. 0	31. 40	23. 8	·1077					
23. 36	34. 0	23. 46	·1075					
23. 59	34. 10							
June 20		June 20		June 20		June 20		
0. 0	21. 34. 10	0. 0	·1075	1. 4	·01284	1. 40	74 ·0	75 ·8
0. 44	37. 0	1. 54	·1071	2. 22	·01066	3. 40	77 ·0	78 ·7
1. 14	39. 20	2. 37	·1073	3. 38	·00768	9. 40	78 ·0	79 ·2
1. 42	38. 20	3. 20	·1068		·00820	22. 40	70 ·0	73 ·0
2. 4	38. 50	3. 49	·1069	5. 30	·00771			
2. 23	37. 20	4. 5	·1066	7. 11	·00676			
	***	4. 37	·1062	8. 19	·00663			
3. 23	35. 0	4. 40	·1066	9. 50	·00716			
3. 37	36. 0	4. 52	·1060	11. 29	·00861			
3. 59	35. 40	5. 20	·1062	16. 14	·01673			
4. 12	35. 50	5. 50	·1063		·01589			
5. 21	31. 5	6. 46	·1060	19. 21	·01605			
5. 30	31. 20	7. 7	·1064	21. 0	·01618			
5. 43	29. 50	7. 49	·1064	22. 7	·01596			
6. 9	31. 40	8. 21	·1066	22. 54	·01539			
6. 21	31. 45	9. 43	·1062					
7. 8	33. 50	12. 5	·1073					
7. 15	33. 45	12. 40	·1078					
7. 59	34. 40	12. 52	·1082					
8. 11	32. 30	13. 16	·1084					
8. 43	31. 50	13. 27	·1082					
8. 59	32. 50	13. 44	·1085					
9. 15	34. 45	14. 24	·1081					
9. 45	34. 30	15. 7	·1085					
12. 16	36. 30	15. 52	·1084					
12. 31	37. 10	16. 10	·1087					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 20		June 20						
h m	° ′ ″	h m		h m		h m	°	°
13. 28	21. 36. 20	16. 28	·1085					
13. 46	36. 30	17. 9	·1091					
14. 9	36. 0	17. 27	·1088					
14. 39	37. 50	17. 52	·1090					
14. 58	38. 0	18. 12	·1087					
15. 13	37. 0	19. 0	·1092					
	***	19. 24	·1084					
16. 45	34. 20	19. 39	·1086					
17. 0	33. 0	23. 59	·1069					
18. 15	33. 20							
19. 0	32. 10							
19. 13	33. 0							
19. 27	32. 30							
19. 43	33. 0							
20. 44	33. 0							
21. 12	34. 0							
21. 27	34. 0							
23. 59	37. 15							
June 21		June 21		June 21		June 21		
0. 0	21. 37. 15	0. 0	·1069	0. 0	·01522	9. 45	76 ·0	78 ·0
0. 15	37. 20	0. 52	·1067	1. 34	·01408	12. 40	73 ·4	75 ·2
	***	1. 25	·1069	2. 30	·01289	13. 40	72 ·7	74 ·3
1. 12	37. 20	1. 44	·1066	4. 56	·00825	14. 40	72 ·1	73 ·0
1. 23	38. 30	2. 20	·1067	6. 28	·00654	15. 40	71 ·5	73 ·5
1. 39	36. 30	4. 7	·1071		·00726	16. 40	71 ·0	73 ·0
2. 52	36. 10	6. 10	·1070	8. 21	·00669	17. 40	70 ·2	72 ·0
3. 7	38. 30	6. 25	·1073	9. 15	·00684	18. 40	69 ·6	71 ·4
3. 14	36. 50	6. 46	·1074	10. 22	·00762	19. 40	69 ·0	70 ·8
3. 37	39. 0	7. 5	·1072	16. 4	·01615	20. 40	68 ·4	70 ·3
4. 38	37. 50	7. 40	·1074	17. 36	·01596	21. 40	68 ·0	69 ·5
4. 58	34. 35	8. 7	·1071		·01384	22. 40	68 ·0	69 ·0
	***	8. 22	·1077	20. 10	·01494	23. 40	67 ·6	69 ·0
6. 45	30. 30	8. 39	·1080	23. 19	·01468			
7. 13	31. 10	8. 45	·1076					
8. 41	34. 30	9. 26	·1077					
9. 21	32. 0	9. 38	·1073					
10. 42	31. 40	10. 51	·1077					
11. 30	33. 30	11. 30	·1075					
12. 19	34. 40	17. 23	·1084					
12. 39	32. 40	17. 51	·1078					
12. 49	33. 50	18. 26	·1075					
14. 9	33. 50	18. 42	·1076					
16. 9	31. 20	19. 11	·1082					
16. 42	32. 40	20. 48	·1076					
17. 23	31. 20	21. 50	·1066					
18. 30	34. 30	23. 0	·1068					
19. 10	34. 0	23. 36	·1074					
19. 45	31. 30	23. 59	·1073					
20. 45	30. 30							
21. 12	32. 30							
	***							
23. 59	41. 45							
June 22		June 22		June 22		June 22		
0. 0	21. 41. 45	0. 0	·1073	1. 42	·01127	0. 40	67 ·6	69 ·0
0. 13	42. 30	2. 3	·1081	2. 26	·01143	1. 40	67 ·4	68 ·6

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 22	° ′ ″	June 22		June 22		June 22	°	°
h m		h m		h m		h m		
0. 24	21. 42. 20	2. 14	·1078	5. 0	·01029	2. 40	67·0	68·4
0. 44	44. 30	2. 32	·1089	5. 44	·00954	3. 40	68·0	69·2
1. 12	39. 30	2. 43	·1089	8. 54	·00615	4. 40	68·4	71·0
1. 47	40. 0	2. 52	·1082	10. 0	·00574	5. 40	69·8	72·5
2. 8	39. 30	3. 0	·1083	10. 48	·00596	6. 40	70·3	73·0
2. 27	40. 5	3. 22	·1076	12. 23	·00757	7. 40	71·0	73·0
2. 41	39. 45	3. 40	·1091	14. 50	·01118	8. 40	71·5	73·0
	***	4. 16	·1079	16. 35	·01260	9. 40	71·5	73·0
3. 6	42. 50	4. 34	·1086	19. 7	·01335	10. 40	71·0	72·8
3. 55	40. 50	4. 51	·1080	20. 31	·01334	11. 40	70·5	72·0
4. 8	39. 0	5. 10	·1056		·01062	21. 40	66·0	68·0
4. 13	39. 30	5. 23	·1051	22. 0	·01159			
4. 29	38. 30	5. 28	·1059	22. 49	·01105			
4. 44	39. 30	5. 44	·1061	23. 59	·00937			
5. 15	35. 55	6. 30	·1074					
5. 41	33. 30	7. 21	·1071					
6. 29	32. 30	7. 35	·1063					
6. 41	31. 0	8. 39	·1079					
6. 59	32. 50	8. 47	·1075					
7. 50	32. 40	8. 58	·1078					
8. 12	36. 5	9. 13	·1072					
8. 44	36. 30	9. 30	·1076					
8. 56	35. 30	11. 4	·1080					
9. 12	36. 30	12. 2	·1085					
9. 23	36. 5	12. 30	·1081					
11. 46	38. 30	15. 30	·1087					
12. 35	34. 0	17. 6	·1095					
12. 59	35. 0	18. 27	·1093					
13. 25	33. 50	18. 56	·1096					
13. 44	34. 45	21. 40	·1081					
14. 27	34. 40	22. 37	·1072					
14. 46	35. 30	22. 53	·1072					
15. 4	35. 0	23. 2	·1076					
15. 44	36. 25	23. 36	·1068					
	***							
18. 13	32. 30							
19. 8	32. 30							
19. 21	31. 45							
	***							
20. 30	31. 50							
20. 51	32. 40							
22. 0	35. 10							
22. 45	31. 0							
23. 1	32. 20							
23. 12	33. 40							
23. 40	33. 30							
23. 45	34. 35							
23. 59	34. 30							
June 23		June 23		June 23		June 23		
0. 0	21. 34. 30	0. 55	·1072	1. 0	·00817	1. 40	70·8	72·5
	***		***	1. 48	·00636	3. 40	74·5	76·5
2. 14	38. 0	1. 49	·1065	5. 30	·00748	9. 40	76·0	78·2
	***		***	7. 0	·00858	21. 40	69·3	68·3
2. 30	36. 35	2. 30	·1064	7. 45	·00741			
	***		***	8. 50	·00671			
3. 0	38. 0	2. 39	·1061	9. 26	·00680			
	***		***	10. 7	·00759			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 23	° ′ ″	June 23		June 23		June 23	°	°
h m		h m		h m		h m		
3. 39	21. 35. 40	4. 6	·1068	10. 53	·00898			
	***		***		·01634			
3. 53	36. 10	4. 10	·1054	13. 27	·01562			
	***		***	18. 35	·01549			
4. 36	32. 35	4. 49	·1068	21. 23	·01534			
	***	4. 55	·1052	22. 0	·01481			
6. 9	31. 10		***	22. 51	·01360			
6. 29	32. 30	5. 7	·1059	23. 59	·01074			
6. 44	32. 20		***					
7. 4	34. 0	10. 0	·1069					
7. 29	34. 30	12. 54	·1077					
7. 40	36. 35	13. 36	·1081					
7. 53	36. 5	14. 22	·1080					
	***	14. 26	·1083					
9. 10	37. 0	14. 45	·1081					
9. 34	34. 30	18. 10	·1088					
10. 17	36. 30	21. 53	·1057					
10. 52	36. 30	22. 24	·1059					
11. 37	38. 0	23. 59	·1050					
11. 56	37. 5							
13. 15	39. 0							
14. 0	37. 30							
14. 12	38. 30							
16. 8	37. 20							
18. 28	32. 55							
19. 43	33. 50							
20. 45	31. 30							
21. 10	31. 55							
21. 50	28. 45							
	***							
23. 12	30. 0							
	***							
23. 59	32. 10							
June 24		June 24		June 24		June 24		
0. 0	21. 32. 10	0. 0	·1050	2. 7	·00635	1. 40	74·0	74·8
	***	1. 6	·1042	3. 55	·00681	3. 40	76·7	77·5
0. 23	32. 30	1. 40	·1038	6. 1	·00680	9. 40	76·0	77·2
0. 37	35. 40	3. 14	·1037		·00706	21. 40	69·0	68·0
0. 55	33. 10	3. 30	·1036	9. 10	·00693			
1. 45	34. 5	3. 34	·1028	10. 0	·00721			
2. 30	29. 30		***	11. 6	·00849			
2. 58	34. 0	4. 0	·1029	11. 52	·00995			
3. 27	29. 35		***	14. 28	·01595			
3. 43	29. 30	5. 47	·1043		·01517			
3. 58	31. 50		***	20. 55	·01495			
4. 12	29. 20	8. 38	·1042	21. 50	·01426			
4. 16	30. 50	12. 39	·1065	23. 0	·01295			
5. 17	29. 0	13. 0	·1064	23. 59	·01080			
5. 30	27. 0	18. 22	·1085					
	***	18. 53	·1083					
6. 45	27. 45	19. 47	·1076					
	(†)	20. 39	·1076					
9. 40	33. 15	22. 40	·1059					
13. 1	35. 20	23. 11	·1050					
15. 54	34. 20	23. 59	·1049					
19. 12	31. 30							
20. 24	32. 50							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
June 24 h m	° ′ ″
21. 40	21. 33. 20
22. 26	31. 10
	***
23. 59	33. 30
June 25	
0. 0	21. 33. 30
	***
1. 13	33. 50
	(†)
1. 40	33. 30*
3. 40	32. 36*
6. 54	32. 0
7. 43	33. 0
11. 57	34. 35
	***
14. 16	33. 40
14. 26	34. 20
14. 39	34. 0
15. 4	34. 40
18. 52	32. 30
19. 26	31. 10
20. 15	32. 20
20. 30	31. 30
21. 57	29. 30
	***
22. 37	31. 30
	***
23. 26	31. 50
23. 59	33. 20
June 26	
0. 0	21. 33. 20
1. 40	33. 55
3. 40	32. 47*
9. 40	34. 27
21. 40	26. 16*

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 25	
	(†)
1. 46	·1042*
3. 40	·1050*
9. 40	·1064*
9. 45	·1059
17. 4	·1091
18. 46	·1093
19. 27	·1080
20. 21	·1082
22. 40	·1060
22. 48	·1055
23. 22	·1057
23. 37	·1051
23. 52	·1052
June 26	
0. 16	·1052
0. 45	·1051
1. 35	·1047
2. 16	·1053
2. 38	·1049
4. 23	·1057
5. 4	·1056
5. 26	·1062
5. 47	·1053
6. 22	·1061
6. 38	·1052
7. 11	·1053
7. 30	·1057
7. 39	·1065
7. 54	·1062
8. 5	·1056
8. 24	·1066
10. 30	·1067
10. 42	·1074
11. 12	·1068
11. 47	·1067
14. 39	·1075
15. 5	·1079
17. 56	·1089
18. 47	·1086
19. 24	·1074

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 25	
1. 23	·00584
1. 37	·00536
	·00615
2. 47	·00647
3. 40	·00786*
9. 40	·00636*
9. 45	·00628
10. 24	·00676
11. 30	·00797
13. 3	·01596
	·01464
20. 0	·01494
21. 12	·01505
22. 23	·01447
23. 3	·01374
23. 59	·01171
June 26	
0. 16	·01124
2. 35	·00560
	·00664
6. 49	·00695
8. 10	·00609
9. 8	·00611
9. 46	·00634
10. 50	·00749
14. 51	·01578
	·01466
19. 40	·01484
21. 45	·01505
22. 35	·01467
23. 59	·01194

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 25		
1. 46	75 ·0	76 ·0
3. 40	78 ·0	78 ·8
9. 40	78 ·0	79 ·0
21. 40	70 ·4	69 ·6
June 26		
1. 40	75 ·3	76 ·2
3. 40	78 ·0	79 ·0
9. 40	78 ·3	79 ·2
21. 40	71 ·5	70 ·4

Göttingen Mean Solar Time.	Western Declination.
June 27 h m	° ′ ″
1. 40	21. 33. 49
3. 40	30. 26*
9. 40	35. 7*
23. 0	32. 51*
June 28	
0. 30	21. 40. 30
0. 45	37. 50
1. 6	37. 20
1. 23	35. 40
1. 30	36. 35
	***
2. 15	34. 5
2. 39	36. 30
2. 54	35. 0
3. 0	36. 0
3. 12	35. 0
3. 25	36. 50
	***
4. 42	33. 50
	***
4. 58	36. 35
5. 8	34. 20
5. 15	36. 35
	***
6. 44	35. 0
7. 31	36. 30
7. 54	35. 5
8. 15	35. 0
8. 43	31. 30
	***
9. 10	31. 10

Göttingen Mean Solar Time.	Horiz. Mag. Force in parts of the whole H. F. uncorrected for Temperature.
June 26	
20. 25	·1069
21. 42	·1056
23. 11	·1047
23. 40	·1048
June 27	
0. 58	·1044
1. 26	·1048
2. 6	·1042
3. 32	·1049
4. 6	·1045
5. 46	·1049
5. 50	·1055
6. 32	·1054
6. 54	·1057
11. 24	·1061
11. 40	·1064
11. 57	·1062
12. 40	·1064
12. 54	·1064
13. 39	·1076
14. 8	·1071
18. 56	·1083
19. 30	·1079
20. 35	·1076
21. 10	·1073
22. 24	·1069
23. 23	·1050
23. 59	·1053
June 28	
0. 0	·1053
0. 52	·1046
1. 48	·1046
2. 10	·1052
2. 54	·1050
3. 7	·1054
5. 30	·1060
5. 54	·1046
6. 3	·1053
6. 37	·1057
7. 0	·1066
7. 19	·1062
8. 26	·1061
8. 44	·1073
9. 2	·1062
10. 14	·1059
10. 37	·1062
11. 25	·1066
12. 0	·1067
12. 11	·1069
12. 31	·1079
13. 0	·1080
14. 29	·1069
17. 40	·1080
21. 9	·1067
21. 27	·1069

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 27	
1. 22	·00813
2. 33	·00564
	·00656
4. 47	·00703
5. 32	·00658
5. 42	·00622
6. 30	·00654
8. 5	·00543
9. 0	·00516
9. 53	·00558
10. 40	·00644
14. 13	·01358
	·01294
15. 53	·01340
19. 24	·01307
21. 15	·01352
22. 40	·01266
June 28	
0. 30	·01074
1. 26	·00897
3. 16	·00421
	·00495
7. 35	·00518
9. 11	·00469
10. 15	·00508
11. 9	·00568
15. 37	·01420
	·01315
18. 20	·01554
	·01277
20. 3	·01304
	·01134
21. 15	·01198
23. 59	·01216

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 27		
1. 40	76 ·4	77 ·0
3. 40	79 ·5	80 ·5
9. 40	81 ·0	83 ·0
23. 0	74 ·0	76 ·0
June 28		
9. 58	82 ·0	83 ·0
12. 40	79 ·0	79 ·9
13. 40	78 ·1	78 ·3
14. 40	77 ·3	77 ·6
15. 40	75 ·6	77 ·0
16. 40	74 ·5	76 ·7
17. 40	73 ·8	75 ·4
18. 40	73 ·0	74 ·6
19. 40	72 ·0	73 ·5
20. 40	73 ·0	73 ·6
21. 40	72 ·8	72 ·5
22. 40	72 ·7	72 ·8
23. 40	73 ·0	73 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 26 and 27. The Photographic Traces of the Declination Magnet were too faint for use.

Göttingen Mean Solar Time.	Western Declination.
June 28	
h m	° ′ ″
9. 44	21. 34. 0
10. 0	33. 50
	***
12. 7	38. 30
	***
13. 12	37. 30
	***
13. 47	35. 30
	***
14. 37	38. 0
15. 0	36. 50
16. 23	37. 0
16. 40	35. 50
16. 53	36. 30
17. 11	35. 30
18. 42	35. 20
18. 54	36. 0
19. 8	34. 30
19. 14	36. 0
19. 27	35. 0
19. 37	36. 0
19. 48	31. 35
20. 14	38. 0
20. 59	40. 30
21. 42	40. 30
22. 12	39. 10
23. 4	39. 20
23. 59	41. 50
June 29	
0. 0	21. 41. 50
1. 5	40. 30
1. 15	41. 35
1. 36	39. 40
2. 32	42. 30
3. 37	38. 40
	***
4. 26	42. 20
5. 8	37. 30
5. 30	38. 30
6. 19	37. 30
8. 59	41. 0
10. 0	40. 5
11. 12	42. 0
11. 26	41. 30
11. 43	41. 50
13. 8	42. 30
13. 25	43. 0
14. 42	43. 20
15. 13	42. 30
15. 45	43. 0
20. 2	36. 30
21. 0	38. 20
22. 41	40. 5
23. 10	41. 30
23. 59	41. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 28	
h m	
22. 11	·1068
23. 26	·1073
	***
	***
	***
	***
	***
June 29	
0. 0	·1074
1. 40	·1072
	***
2. 15	·1072
	***
2. 59	·1076
	***
5. 25	·1081
	***
8. 47	·1096
	***
11. 45	·1102
	***
15. 3	·1120
	***
16. 20	·1122
	***
17. 3	·1128
	***
17. 40	·1126
	***
17. 41	·1117
	***
19. 3	·1118
	***
19. 55	·1104
	***
20. 32	·1105
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 28	
h m	
1. 45	·01196
2. 21	·01121
5. 0	·01144
6. 56	·01145
9. 21	·01240
11. 54	·01217
20. 10	·01215
23. 59	·01113

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 29	°	°
0. 40	73·6	73·8
1. 40	74·0	74·0
2. 40	74·0	74·3
3. 40	73·8	74·0
4. 40	74·0	74·5
5. 40	74·0	74·5
6. 40	73·7	74·4
7. 40	73·6	74·2
8. 40	72·7	73·8
9. 40	71·0	73·0
10. 40	70·5	72·5
11. 40	69·0	71·0
21. 45	67·3	69·7

Göttingen Mean Solar Time.	Western Declination.
June 30	
0. 30	21. 41. 0
1. 40	42. 0
2. 9	42. 20
2. 22	41. 50
2. 41	42. 30
3. 32	40. 10
4. 37	40. 0
5. 29	41. 40
7. 56:	38. 40
9. 13	40. 0
9. 27	39. 45
9. 35	40. 30
11. 3	40. 0
11. 22	40. 40
11. 37	39. 45
12. 12	35. 50
12. 51	37. 50
15. 27	39. 10
15. 43	38. 20
	***
16. 50	39. 35
17. 21	38. 0
	***
18. 22	39. 30
18. 37	38. 50
19. 12	39. 0
19. 38	37. 35
20. 11	39. 10
20. 21	38. 50
20. 44	39. 30
21. 11	38. 10
21. 53	37. 35
22. 22	38. 0
22. 36	37. 30
23. 12	38. 40
23. 27	38. 20
23. 44	39. 0
23. 52	38. 40
23. 59	39. 0
July 1	
0. 0	21. 39. 0
0. 40	38. 0
0. 58	37. 30
1. 15	38. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
June 30	
h m	
21. 3	·1096
	***
22. 20	·1100
	***
22. 51	·1107
	***
23. 16	·1102
	***
23. 48	·1091
	***
23. 59	·1091
June 30	
0. 0	·1091
1. 6	·1092
2. 35	·1095
3. 54	·1087
4. 32	·1092
8. 25	·1097
10. 39	·1100
10. 53	·1111
13. 55	·1108
14. 20	·1113
15. 7	·1110
15. 30	·1114
16. 19	·1112
16. 28	·1115
16. 35	·1113
18. 57	·1112
19. 20	·1103
20. 58	·1098
23. 10	·1084
July 1	
0. 0	·1089
0. 52	·1092
1. 18	·1101
2. 4	·1103

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
June 30	
0. 40	·01112
3. 11	·01016
5. 46	·00789
8. 55	·00702
10. 36	·00769
12. 19	·00844
14. 25	·01115
16. 46	·01187
	·01081
17. 55	·01186
19. 3	·01210
	·01094
21. 50	·01155
22. 48	·00963
July 1	
0. 0	·00928
2. 23	·00684
3. 0	·00654
6. 14	·00619

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 30	°	°
1. 40	68·6	69·3
3. 40	70·0	70·3
5. 46	70·0	71·0
9. 40	70·0	71·0
21. 40	65·6	65·9
July 1		
1. 40	67·3	68·3
3. 40	67·4	68·7
9. 45	64·6	66·0
21. 50	60·2	62·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 1		July 1		July 1				
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 35. 40	2. 26	·1106	7. 37	·00665			
1. 52	36. 40	2. 51	·1112	12. 31	{·01101			
	***	3. 38	·1116		{·01004			
3. 17	38. 0	5. 40	·1114	14. 17	{·01062			
3. 53	36. 30	6. 6	·1109		{·01026			
4. 13	37. 20	8. 30	·1117	20. 10	·01105			
4. 29	37. 0	8. 47	·1115	21. 55	·01097			
4. 42	37. 30	8. 55	·1120	22. 50	·01076			
5. 39	35. 0	9. 59	·1114	23. 59	·00950			
5. 50	35. 30	10. 11	·1121					
6. 47	33. 30	11. 52	·1113					
7. 10	34. 0	12. 19	·1115					
7. 43	32. 30	13. 15	·1113					
8. 10	33. 30	16. 30	·1122					
8. 24	32. 30	17. 0	·1121					
8. 39	33. 30	17. 15	·1124					
8. 59	31. 30	17. 41	·1121					
	***	18. 11	·1124					
10. 22	36. 0	18. 52	·1122					
12. 13	32. 35	19. 9	·1124					
12. 29	33. 0	20. 8	·1117					
13. 52	31. 40	20. 19	·1112					
15. 26	35. 0	21. 0	·1112					
16. 52	32. 30	23. 59	·1097					
18. 7	31. 30							
	***							
19. 8	32. 50							
19. 56	31. 30							
20. 3	32. 35							
20. 38	30. 30							
	***							
21. 28	30. 30							
	***							
23. 25	32. 45							
23. 43	34. 0							
23. 59	33. 0							
July 2		July 2		July 2		July 2		
0. 0	21. 33. 5	0. 0	·1097	0. 33	·00883	1. 40	63 ·0	64 ·8
0. 51	33. 20	1. 26	·1094	2. 9	·00741	3. 40	64 ·5	66 ·3
1. 12	32. 40	2. 4	·1090	5. 19	·00323	9. 40	66 ·3	67 ·7
1. 43	33. 0	3. 50	·1094	8. 7	·00045	21. 44	62 ·3	63 ·8
	***	4. 12	·1090	10. 35	·00036			
2. 54	35. 20	5. 25	·1089	11. 41	·00096			
	***	5. 40	·1091	15. 39	·00654			
3. 43	33. 40	5. 46	·1088	17. 5	·00816			
4. 7	34. 50	5. 54	·1093	19. 30	·00949			
4. 39	34. 5	6. 10	·1089	21. 36	·00972			
5. 19	32. 20	7. 39	·1091	22. 19	·00955			
	***	8. 12	·1089	23. 59	·00803			
5. 59	32. 25	17. 0	·1104					
6. 15	31. 30	19. 9	·1101					
6. 28	31. 55	19. 26	·1097					
6. 45	31. 30	19. 52	·1097					
7. 6	32. 10	21. 25	·1086					
7. 23	31. 50	21. 39	·1081					
8. 28	32. 50	21. 47	·1083					
9. 12	34. 40	22. 0	·1077					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 2		July 2						
h m	° ′ ″	h m		h m		h m	°	°
9. 43	21. 33. 50	22. 25	·1078					
10. 39	33. 50	22. 40	·1074					
11. 2	34. 30	22. 49	·1076					
11. 43	33. 30	23. 6	·1074					
12. 41	33. 0	23. 15	·1076					
14. 59	32. 30	23. 40	·1074					
15. 43	32. 45	23. 59	·1077					
15. 57	31. 30							
16. 39	31. 0							
16. 52	31. 25							
17. 2	30. 5							
17. 44	29. 10							
18. 7	30. 30							
18. 11	29. 30							
18. 45	29. 25							
18. 55	30. 40							
19. 4	29. 5							
19. 13	28. 40							
19. 18	29. 20							
19. 37	29. 10							
19. 58	30. 30							
20. 22	29. 20							
20. 30	30. 0							
20. 40	28. 40							
20. 43	29. 0							
20. 53	28. 20							
21. 16	28. 35							
21. 40	31. 30							
22. 11	30. 0							
23. 3	32. 20							
23. 12	32. 0							
23. 25	34. 0							
23. 32	33. 30							
23. 37	34. 5							
23. 46	32. 45							
23. 59	34. 30							
July 3		July 3		July 3		July 3		
0. 0	21. 34. 30	0. 0	·1077	1. 15	·00661	1. 40	65 ·8	66 ·4
1. 13	33. 50	1. 34	·1084	3. 51	·00214	3. 40	67 ·0	68 ·0
1. 27	32. 20	1. 48	·1082	5. 8	{·00057	9. 40	67 ·0	68 ·0
1. 40	35. 0	2. 22	·1084		{·00144	21. 45	64 ·0	65 ·2
	***		***	7. 0	·00133			
2. 13	33. 5	2. 39	·1079	7. 53	·00113			
	***	4. 0	·1078	10. 0	·00118			
3. 43	31. 45	4. 14	·1076	11. 33	·00184			
	***	5. 7	·1079	16. 38	·00695			
5. 29	32. 40	5. 52	·1071	18. 15	·00836			
6. 29	30. 20	7. 14	·1082	20. 0	·00895			
7. 44	31. 30	7. 51	·1075	21. 11	·00892			
9. 44	35. 20	9. 0	·1085	23. 15	·00807			
10. 11	34. 30		***	23. 59	·00729			
11. 0	35. 30	10. 30	·1089					
11. 12	34. 30	13. 12	·1089					
	***	13. 26	·1094					
12. 15	35. 5	13. 43	·1089					
12. 29	34. 30	15. 45	·1093					
12. 52	34. 40	17. 50	·1103					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 29 and 30. The times are probably a few minutes in error.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 3		July 3						
h m	° ′ ″	h m		m		h m	°	°
13. 29	21. 33. 0	20. 19	·1104					
14. 1	34. 40	21. 41	·1093					
	***	21. 50	·1095					
15. 7	33. 20	22. 25	·1091					
15. 39	34. 0	23. 6	·1083					
15. 45	33. 0	23. 30	·1082					
16. 14	33. 50	23. 59	·1086					
	**							
17. 12	31. 30							
17. 37	31. 40							
17. 47	30. 35							
19. 5	32. 30							
19. 20	31. 50							
	***							
19. 57	32. 40							
20. 12	32. 30							
20. 29	34. 10							
20. 43	33. 35							
22. 15	34. 55							
22. 33	36. 30							
23. 15	37. 35							
23. 26	39. 30							
23. 59	38. 15							
July 4		July 4		July 4		July 4		
0. 0	21. 36. 15	0. 0	·1086	1. 5	·00655	1. 40	66 ·0	67 ·0
1. 22	38. 35	0. 43	·1079	5. 50	·00116	3. 40	66 ·7	68 ·0
1. 40	42. 0	1. 44	·1085		·00178	9. 40	68 ·0	69 ·0
1. 56	41. 30	3. 40	·1091	9. 54	·00141	23. 10	65 ·0	66 ·0
2. 28	42. 40	4. 19	·1085	11. 59	·00234			
	***	6. 30	·1090	16. 52	·00602			
6. 4	30. 35	7. 7	·1086	19. 15	·00687			
6. 58	30. 20	7. 25	·1091	20. 30	·00704			
7. 17	31. 30	8. 10	·1091	23. 31	·00605			
8. 56	32. 55	8. 37	·1089					
9. 15	32. 30	11. 30	·1096					
9. 58	34. 0	14. 15	·1093					
10. 13	35. 30	15. 13	·1098					
11. 23	36. 50	19. 0	·1096					
11. 48	35. 30	22. 55	·1072					
12. 52	35. 0	23. 59	·1071					
14. 4	35. 30							
15. 37	36. 30							
15. 51	35. 0							
16. 16	35. 0							
17. 58	31. 0							
18. 15	31. 30							
	***							
19. 42	29. 0							
20. 37	28. 45							
	***							
22. 39	33. 30							
23. 7	34. 0							
23. 59	36. 0							
July 5		July 5		July 5		July 5		
0. 0	21. 36. 0	0. 0	·1071	0. 0	·00592	12. 10	64 ·0	66 ·0
0. 13	35. 35	1. 14	·1075	4. 24	·00219	12. 40	67 ·0	68 ·3

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 5		July 5		July 5		July 5		
h m	° ′ ″	h m		h m		h m	°	°
0. 30	21. 36. 30	3. 29	·1095	5. 37	·00138	13. 40	66 ·4	67 ·9
0. 58	36. 45	7. 9	·1094		·00235	14. 40	66 ·2	67 ·8
1. 12	38. 0	7. 45	·1099	9. 24	·00165	15. 40	66 ·2	67 ·5
1. 20	37. 30	8. 7	·1096	10. 45	·00194	16. 40	66 ·0	67 ·4
1. 45	40. 0	8. 40	·1100	15. 26	·00453	17. 40	66 ·0	67 ·3
1. 58	40. 0	14. 24	·1098	17. 35	·00536	18. 40	66 ·0	67 ·3
2. 52	42. 55	15. 15	·1093	20. 0	·00560	19. 40	66 ·0	67 ·2
4. 36	40. 40	16. 50	·1094	21. 21	·00549	20. 40	66 ·0	67 ·2
4. 52	39. 30	18. 1	·1098	22. 15	·00504	21. 40	68 ·0	68 ·3
7. 29	36. 10	19. 21	·1093	23. 30	·00362	22. 40	67 ·5	67 ·8
7. 45	36. 50	20. 20	·1088			23. 40	68 ·0	68 ·0
8. 42	37. 10	22. 21	·1071					
9. 10	35. 30	23. 59	·1058					
11. 50	36. 50							
12. 14	34. 30							
13. 0	36. 30							
13. 26	34. 40							
14. 6	34. 40							
14. 42	32. 20							
15. 53	31. 45							
16. 22	30. 30							
20. 10	29. 50							
20. 35	27. 30							
20. 56	26. 40							
21. 12	27. 30							
21. 39	26. 20							
21. 58	27. 50							
22. 22	27. 30							
23. 59	29. 50							
July 6		July 6		July 6		July 6		
0. 0	21. 29. 50	0. 0	·1058	1. 13	·00163	0. 40	68 ·0	68 ·0
	***		***	2. 3	·00102	1. 40	68 ·0	68 ·4
1. 0	32. 50	4. 29	·1074		·00198	2. 40	68 ·8	69 ·5
1. 36	36. 30		***	5. 25	·00237	3. 40	69 ·0	69 ·7
2. 0	33. 40	5. 12	·1070	6. 11	·00195	4. 40	69 ·0	69 ·6
2. 19	34. 0		***	7. 21	·00214	5. 40	69 ·0	69 ·5
2. 30	32. 20	6. 51	·1086	8. 53	·00340	6. 40	69 ·0	69 ·4
2. 52	33. 50	7. 23	·1079	10. 30	·00539	7. 40	68 ·6	69 ·0
3. 0	33. 5		***	14. 0	·01183	8. 40	67 ·0	68 ·2
3. 15	34. 30	13. 30	·1098		·01117	9. 40	66 ·5	67 ·5
3. 41	32. 30	15. 36	·1097	17. 49	·01149	10. 40	65 ·5	67 ·0
3. 59	34. 40	18. 55	·1107	19. 45	·01129	11. 40	64 ·5	66 ·5
4. 27	33. 30	22. 7	·1091	20. 40	·01093	21. 40	59 ·7	61 ·5
4. 48	34. 30	23. 32	·1083	21. 32	·01120			
5. 13	32. 45	23. 59	·1084		·01064			
5. 43	34. 30			23. 59	·01041			
5. 57	33. 10							
	***							
6. 48	32. 55							
7. 3	34. 0							
7. 36	30. 30							
	***							
8. 7	31. 10							
8. 18	32. 20							
8. 29	32. 15							
8. 54	33. 50							
9. 2	33. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F.	Of V. F.
July 6								
h m	° ′ ″	h m		h m		h m	°	°
9. 18	21. 34. 45							
9. 52	32. 50							
10. 27	34. 30							
12. 56	35. 5							
13. 37	34. 0							
13. 51	34. 35							
14. 37	34. 10							
15. 14	36. 15							
16. 36	33. 30							
16. 47	34. 0							
18. 12	33. 0							
18. 52	34. 40							
19. 26	33. 40							
21. 57	34. 45							
23. 59	38. 30							
July 7		July 7		July 7		July 7		
0. 0	21. 38. 30	0. 0	·1084	0. 53	·01014	1. 40	61·7	63·0
1. 10	41. 40	1. 48	·1079	2. 47	·00895	3. 40	63·4	64·7
1. 45	40. 20	2. 7	·1091	3. 30	·00765	9. 40	65·2	67·2
3. 13	39. 40	2. 35	·1089	4. 21	·00543	21. 44	59·4	60·7
3. 29	41. 10	3. 17	·1078	6. 0	·00213			
3. 49	39. 50	3. 22	·1085	6. 52	·00089			
3. 56	40. 40	3. 37	·1088	7. 49	·00118			
4. 9	39. 0	4. 0	·1079	11. 1	·00041			
4. 36	39. 50	4. 31	·1084	13. 26	·00244			
4. 52	41. 0	4. 50	·1074	15. 10	·00485			
5. 30	38. 0	5. 0	·1078	18. 39	·01096			
6. 8	32. 20	5. 16	·1075		·01032			
6. 28	34. 40	5. 30	·1063	21. 0	·01040			
		5. 37	·1068	22. 24	·01068			
6. 45	33. 0	6. 6	·1077	23. 59	·00997			
7. 14	33. 40	6. 9	·1084					
7. 26	32. 50	6. 12	·1084					
8. 28	33. 45	6. 16	·1088					
8. 44	33. 0	6. 24	·1088					
9. 11	34. 0	6. 31	·1083					
9. 44	33. 0	6. 39	·1086					
10. 16	33. 0	6. 49	·1084					
10. 38	32. 35	7. 5	·1086					
10. 43	33. 0	7. 10	·1094					
11. 0	32. 0	7. 39	·1097					
11. 15	33. 0	8. 45	·1092					
11. 48	29. 45	9. 6	·1093					
11. 57	31. 10	9. 53	·1092					
12. 17	29. 0	10. 8	·1089					
12. 45	31. 0	10. 21	·1093					
13. 40	26. 0	10. 28	·1084					
14. 9	28. 0	10. 40	·1094					
14. 30	25. 30	10. 48	·1087					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F.	Of V. F.
July 7		July 7						
h m	° ′ ″	h m		h m		h m	°	°
15. 12	21. 29. 50	11. 24	·1089					
15. 40	28. 40	11. 27	·1093					
16. 25	29. 0	11. 50	·1090					
16. 52	31. 20	12. 4	·1093					
17. 2	30. 20	12. 25	·1084					
17. 14	31. 30	12. 52	·1089					
17. 26	29. 55	13. 2	·1084					
17. 39	31. 40	13. 13	·1086					
		13. 55	·1084					
18. 44	30. 50	14. 37	·1094					
18. 53	32. 0	15. 0	·1092					
18. 59	31. 30	15. 8	1096					
19. 10	32. 40	15. 15	·1093					
19. 24	31. 10	16. 7	·1097					
20. 10	32. 20							
20. 37	30. 10	18. 53	·1094					
22. 14	31. 0	19. 2	·1090					
		19. 10	·1092					
23. 47	33. 40	19. 22	·1083					
		23. 49	·1070					
July 8		July 8		July 8		July 8		
0. 52	21. 37. 35	0. 40	·1085	0. 56	·00943	1. 43	61·4	62·7
1. 43	34. 30	3. 33	·1077	2. 35	·00806	3. 40	62·5	63·8
		4. 0	·1081	4. 35	·00500	9. 40	64·9	66·4
3. 39	32. 0	4. 15	·1079		·00136	21. 4	63·1	64·7
3. 53	32. 35	4. 27	·1085	6. 47	·00160			
		5. 19	·1079	8. 30	·00147			
5. 4	31. 30	6. 12	·1086	11. 6	·00094			
5. 30	32. 45			12. 23	·00105			
5. 43	31. 35	6. 51	·1086	13. 19	·00229			
6. 13	30. 30				·01129			
6. 36	32. 20	7. 11	·1078	18. 15	·01076			
7. 0	31. 30			19. 49	·01080			
7. 13	33. 0	8. 15	·1092	21. 41	·01102			
		8. 40	·1083		·00965			
7. 40	33. 30	9. 4	·1089	22. 51	·00928			
7. 45	32. 0			23. 59	·00783			
		9. 55	·1087					
8. 15	32. 10							
8. 36	33. 30	10. 20	·1098					
9. 10	32. 50	10. 44	·1075					
10. 13	34. 0	11. 10	·1078					
10. 21	33. 5	11. 22	·1085					
10. 43	36. 0	15. 31	·1092					
		16. 23	·1096					
11. 21	31. 50	16. 31	·1100					
		16. 46	·1097					
16. 0	32. 40							
		18. 37	·1098					
17. 35	29. 20	18. 58	·1090					
		19. 10	·1086					
17. 53	27. 35							
18. 42	28. 30	19. 24	·1076					
18. 49	30. 0							
19. 12	26. 0	20. 0	·1079					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
July 8		July 8						
h m	° ′ ″	h m		h m		h m	°	°
20. 10	21. 29. 20	20. 35	·1082					
20. 15	32. 40	21. 47	·1074					
	***	22. 36	·1079					
22. 0	32. 50	23. 16	·1075					
	***							
23. 13	37. 40							
23. 25	37. 0							
	***							
23. 59	38. 25							
July 9		July 9		July 9		July 9		
0. 0	21. 38. 25	0. 0	·1060	1. 27	·00416	1. 40	63 ·4	65 ·0
	***	0. 16	·1059	2. 46	·00214	3. 40	65 ·6	67 ·7
0. 30	41. 30	0. 27	·1069	7. 24	·00354	9. 40	70 ·5	71 ·5
0. 49	41. 30	1. 27	·1069	11. 0	·00285	21. 40	63 ·6	65 ·2
1. 36	36. 10	1. 36	·1073	11. 39	·00354			
	***	2. 54	·1076	15. 30	·00776			
3. 36	36. 30	3. 7	·1079	18. 18	·01310			
4. 0	37. 40	3. 25	·1077		·01224			
4. 13	37. 0	4. 8	·1083	20. 9	·01229			
4. 37	38. 20	4. 24	·1082	22. 15	·01244			
4. 51	35. 30	4. 37	·1076	23. 59	·01069			
5. 5	34. 20	5. 0	·1071					
5. 21	35. 0	5. 14	·1078					
5. 36	34. 0	5. 29	·1071					
5. 55	36. 30	5. 41	·1073					
6. 15	34. 30	5. 54	·1093					
6. 43	35. 0	6. 2	·1091					
7. 15	26. 0	6. 8	·1093					
	***	6. 33	·1081					
7. 57	30. 10	6. 45	·1081					
	***	7. 7	·1070					
8. 44	29. 40	7. 27	·1088					
9. 30	33. 0	7. 40	·1089					
10. 1	31. 30	8. 6	·1078					
10. 25	33. 0	8. 26	·1081					
10. 32	32. 0	8. 52	·1079					
	***	10. 48	·1081					
11. 25	32. 30	11. 15	·1079					
11. 40	30. 0	12. 1	·1080					
12. 0	29. 55	12. 32	·1092					
12. 13	31. 0	13. 0	·1087					
12. 25	29. 0	13. 44	·1089					
	***	14. 0	·1086					
13. 9	33. 30	17. 21	·1092					
	***	18. 54	·1091					
14. 6	32. 0	19. 30	·1086					
15. 3	34. 50	20. 52	·1086					
	***	21. 49	·1081					
15. 21	33. 10	23. 0	·1068					
	***	23. 59	·1066					
17. 56	31. 45							
19. 21	29. 10							
	***							
20. 35	25. 25							
20. 52	26. 10							
21. 10	25. 30							
22. 5	29. 10							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
July 9								
h m	° ′ ″	h m		h m		h m	°	°
22. 20	21. 28. 10							
22. 25	29. 0							
22. 51	29. 0							
23. 43	33. 0							
23. 59	32. 40							
July 10		July 10		July 10		July 10		
0. 0	21. 32. 40	0. 0	·1066	1. 12	·00816	1. 40	68 ·0	69 ·3
0. 13	33. 20	1. 22	·1066	3. 5	·00304	3. 40	70 ·6	72 ·2
0. 24	34. 50	2. 34	·1072		·00382	9. 40	70 ·0	71 ·0
1. 13	33. 35	2. 52	·1064	9. 39	·00396	21. 40	66 ·7	68 ·2
2. 30	35. 0	3. 18	·1062	10. 34	·00449			
2. 41	34. 0	3. 51	·1082	16. 20	·01381			
2. 54	35. 30	4. 7	·1080		·01277			
3. 0	34. 50		***	20. 9	·01323			
3. 12	37. 10	4. 25	·1088	22. 0	·01298			
3. 17	35. 0	4. 44	·1086	23. 59	·01130			
3. 51	40. 40		***					
4. 9	39. 45	4. 55	·1080					
4. 15	40. 50	5. 9	·1091					
4. 22	39. 30	5. 12	·1086					
4. 30	40. 35	5. 22	·1090					
	***	5. 32	·1092					
5. 51	34. 20	5. 48	·1079					
6. 2	34. 35	5. 56	·1084					
6. 15	32. 40	6. 4	·1082					
	***	6. 47	·1096					
6. 59	31. 10	6. 58	·1085					
7. 8	32. 30	7. 8	·1096					
7. 25	31. 45	7. 26	·1088					
7. 58	33. 0	8. 0	·1092					
8. 5	32. 30	8. 9	·1100					
8. 11	33. 0	8. 16	·1092					
	***	8. 31	·1092					
8. 45	29. 40	8. 38	·1096					
9. 7	31. 0	9. 6	·1092					
9. 13	30. 0	9. 11	·1096					
10. 0	31. 50	9. 37	·1089					
10. 14	33. 30	9. 47	·1087					
10. 52	32. 50	9. 58	·1091					
11. 22	34. 0	10. 40	·1083					
12. 20	33. 20	11. 26	·1091					
12. 46	33. 50	11. 40	·1095					
13. 14	29. 45	12. 22	·1091					
13. 35	31. 30	12. 42	·1097					
13. 41	31. 10	12. 49	·1109					
13. 54	33. 0	13. 0	·1105					
14. 25:	31. 0	13. 12	·1110					
15. 0	32. 30	13. 47	·1099					
15. 40	32. 10	15. 26	·1104					
15. 58	33. 50	16. 5	·1096					
16. 11	34. 0	17. 18	·1102					
16. 25	36. 30	18. 0	·1100					
16. 43	36. 40	19. 6	·1105					
17. 22	39. 40	20. 0	·1100					
17. 39	39. 0	20. 34	·1094					
17. 52	39. 50	21. 24	·1079					
18. 20	39. 0	23. 15	·1067					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 10		July 10						
h m	° ′ ″	h m		h m		h m	°	°
18. 40	21. 37. 0	23. 59	·1066					
18. 53	36. 50							
19. 32	34. 0							
19. 40	35. 0							
	***							
20. 30	34. 20							
	***							
20. 45	32. 50							
	***							
21. 43	32. 0							
	***							
22. 6	30. 30							
	***							
23. 21	31. 0							
	***							
23. 45	32. 50							
23. 59	32. 10							
July 11		July 11		July 11		July 11		
0. 0	21. 32. 10	0. 0	·1066	1. 6	·00982	1. 40	70 ·1	71 ·4
	***	2. 22	·1065	3. 7	·00536	3. 40	71 ·3	73 ·0
1. 43	33. 20	2. 38	·1064		·00984	9. 40	73 ·0	74 ·4
1. 52	35. 20	3. 27	·1070	5. 30	·00660	22. 32	66 ·0	67 ·8
	***	3. 39	·1068	6. 51	·00618			
3. 59	34. 10	3. 54	·1071	10. 24	·00558			
4. 15	35. 30	4. 7	·1066	10. 46	·00600			
4. 29	34. 0	4. 16	·1070	10. 53	·00554			
	***	4. 27	·1067	11. 32	·00560			
5. 10	33. 30	5. 8	·1071	11. 50	·00642			
	***	5. 19	·1076	15. 14	·01318			
5. 39	34. 25	5. 32	·1066	16. 24	·01261			
	***	5. 38	·1070	17. 30	·01257			
6. 10	32. 30	5. 55	·1068	21. 50	·01316			
6. 15	33. 20	6. 6	·1072	23. 0	·01194			
6. 22	32. 35	6. 11	·1069					
6. 30	33. 50	6. 16	·1073					
6. 42	32. 50	6. 24	·1069					
	***	6. 30	·1079					
8. 15	34. 20	7. 0	·1090					
8. 37	32. 40	7. 16	·1089					
9. 45	29. 30	7. 29	·1079					
10. 8	31. 30	7. 52	·1105					
10. 42	22. 30	8. 0	·1105					
11. 5	25. 10	8. 7	·1098					
	(†)	8. 12	·1102					
13. 50	32. 45	8. 30	·1082					
14. 11	32. 20	8. 46	·1083					
14. 19	32. 50	8. 55	·1079					
14. 43	32. 0	9. 6	·1083					
15. 1	34. 0	10. 7	·1080					
15. 21	33. 0	10. 29	·1063					
15. 30	33. 35	10. 39	·1067					
16. 2	31. 5	10. 40	·1096					
16. 24	31. 0	10. 52	·1083					
16. 43	29. 40	10. 57	·1089					
17. 7	31. 30	11. 8	·1075					
17. 30	31. 0	11. 16	·1085					
	***	11. 37	·1045					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 11		July 11						
h m	° ′ ″	h m		h m		h m	°	°
18. 22	21. 31. 30	12. 4	·1058					
18. 55	34. 0	12. 16	·1060					
	***	12. 38	·1069					
19. 36	32. 20	13. 24	·1064					
20. 27	35. 0	13. 39	·1069					
20. 53	33. 0	14. 13	·1074					
21. 35	29. 35	15. 8	·1069					
21. 58	30. 10	15. 30	·1078					
	(†)	15. 54	·1077					
		17. 3	·1090					
		17. 37	·1079					
		18. 15	·1075					
		19. 6	·1079					
		20. 3	·1063					
		20. 21	·1055					
		21. 0	·1049					
		22. 37	·1060					
			(†)					
July 12				July 12		July 12		
9. 15	21. 32. 16*	9. 15	·1060*	0. 0	·01062	9. 15	79 ·4	80 ·0
21. 45	26. 3*	21. 45	·1065*	0. 54	·00840	12. 40	75 ·1	77 ·5
				2. 8	·00444	13. 40	73 ·5	75 ·0
					·00506	14. 40	71 ·5	74 ·0
				4. 15	·00621	15. 40	69 ·0	72 ·1
				7. 54	·00635	16. 40	69 ·5	72 ·5
				9. 30	·00597	17. 40	68 ·5	72 ·5
				12. 49	·01008	18. 40	67 ·4	70 ·7
				14. 37	·01456	19. 40	67 ·8	71 ·0
					·01404	20. 40	69 ·1	71 ·6
				22. 15	·01375	21. 40	70 ·5	70 ·2
				23. 0	·01318	22. 40	71 ·4	71 ·1
				23. 18	·01215	23. 40	72 ·6	72 ·5
July 13		July 13						
0. 49	21. 32. 0							
1. 2	32. 0		(†)	1. 0	·00884	0. 40	73 ·8	74 ·0
1. 15	30. 25	1. 15	·1049	2. 20	·00465	1. 40	75 ·0	75 ·3
1. 40	33. 10	2. 39	·1057	5. 29	·00625	2. 40	76 ·3	77 ·0
1. 49	31. 10	2. 52	·1052		·01117	3. 40	77 ·0	78 ·0
	***	3. 10	·1056	7. 10	·01018	4. 40	78 ·6	79 ·3
2. 44	31. 30	4. 38	·1052	9. 0	·00980	5. 40	79 ·0	80 ·0
2. 57	30. 30	4. 54	·1058	9. 44	·01015	6. 40	79 ·6	80 ·1
3. 13	32. 30	5. 11	·1054	10. 39	·01134	7. 40	79 ·5	80 ·0
	***	5. 47	·1060	12. 27	·01420	8. 40	79 ·0	80 ·0
3. 44	29. 45	6. 7	·1058	14. 0	·01442	9. 40	78 ·7	79 ·5
3. 52	32. 30	6. 32	·1064	16. 0	·01415	10. 40	77 ·5	77 ·7
4. 5	30. 30	8. 38	·1062	21. 25	·01433	11. 40	76 ·2	77 ·7
	***	11. 25	·1071	22. 6	·01403	21. 40	71 ·9	72 ·0
4. 50	30. 30	11. 46	·1079	23. 0	·01307			
5. 6	28. 45	12. 25	·1077	23. 59	·01137			
5. 22	31. 0	12. 40	·1079					
	***	12. 52	·1083					
6. 2	29. 0	13. 0	·1080					
7. 0	32. 35	14. 0	·1086					
8. 9	31. 30	14. 8	·1091					
8. 38	32. 10	14. 22	·1094					
9. 13	36. 10	14. 31	·1093					
		14. 40	·1088					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

July 12. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
July 13		July 13						
h m	° ′ ″	h m		h m		h m	°	°
10. 13	21. 36. 0	15. 22	·1092					
11. 10	32. 55	15. 42	·1086					
11. 43	34. 15	16. 6	·1086					
12. 20	32. 0	16. 32	·1084					
13. 25	33. 50	17. 7	·1087					
13. 47	32. 35	17. 56	·1084					
14. 10	34. 50	18. 41	·1086					
14. 29	33. 0	19. 39	·1082					
15. 0	34. 50	22. 12	·1063					
15. 40	32. 30	22. 41	·1064					
16. 19	30. 30	23. 59	·1054					
16. 47	31. 0							
17. 14	29. 0							
18. 0	32. 20							
18. 21	31. 0							
18. 35	31. 30							
19. 25	30. 0							
20. 2	27. 30							
20. 14	25. 30							
20. 41	25. 10							
20. 59	26. 50							
21. 12	25. 50							
22. 45	29. 40 (†)							
July 14		July 14		July 14		July 14		
	(†)	0. 0	·1054	1. 2	·01011	1. 40	76 ·0	76 ·7
1. 40	21. 32. 42*	1. 37	·1060	2. 48	·00504	3. 40	78 ·7	79 ·0
2. 7	34. 30	2. 12	·1049		·00562	9. 40	79 ·3	80 ·0
2. 53	33. 10	2. 45	·1054	3. 33	·00556	21. 40	70 ·4	69 ·8
4. 22	36. 30	3. 53	·1049		·01038			
4. 40	35. 30	5. 8	·1055	5. 12	·00763			
4. 52	36. 20	6. 2	·1054	6. 0	·00701			
6. 19	33. 30	6. 37	·1060	8. 4	·00638			
6. 45	36. 0	7. 34	·1061	9. 41	·00760			
7. 54	34. 30	8. 12	·1057	10. 35	·00884			
8. 19	34. 0	8. 27	·1064	11. 24	·01076			
9. 19	28. 40	8. 38	·1057	12. 32	·01377			
10. 39	35. 30	9. 38	·1057	12. 48	·01355			
11. 29	35. 10	9. 47	·1061	14. 15	·01315			
12. 13	37. 30	9. 52	·1058	17. 6	·01317			
13. 14	41. 40	10. 25	·1061	18. 14	·01304			
13. 30	40. 20	10. 32	·1069	21. 0	·01338			
13. 50	40. 20	10. 57	·1066	22. 10	·01258			
14. 15	38. 0	12. 34	·1078	22. 52	·01155			
15. 22	39. 35	12. 52	·1089	23. 59	·00920			
15. 36	39. 0	14. 48	·1083					
17. 17	38. 50	18. 39	·1095					
17. 44	39. 20	21. 6	·1074					
18. 54	39. 30	22. 15	·1053					
19. 57	38. 30	23. 18	·1053					
21. 2	38. 40	23. 59	·1057					
21. 45	33. 40							
22. 44	35. 0							
22. 57	36. 30							
23. 13	36. 30							
23. 59	39. 5							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers.	
							Of H. F. Magnet.	Of V. F. Magnet.
July 15		July 15		July 15		July 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 10	0. 0	·1057	1. 0	·00633	1. 40	76 ·3	76 ·3
1. 0	41. 0 ***	1. 11	·1054 ***	1. 37	·00421	3. 40	79 ·0	79 ·3
					·00455	9. 40	79 ·0	79 ·3
3. 22	36. 45	1. 48	·1047 ***	3. 45	·00556	21. 40	67 ·8	68 ·5
3. 44	34. 0			8. 0	·00560			
4. 0	34. 35 ***	2. 1	·1052 ***	9. 38	·00677			
4. 36	32. 30 ***	3. 10	·1052 ***	10. 50	·00841			
				12. 0	·01095			
5. 15	32. 50	5. 29	·1037 ***	13. 21	·01354			
5. 30	31. 10			15. 19	·01350			
5. 42	32. 30	6. 45	·1037 ***	18. 45	·01298			
5. 58	31. 0 ***	8. 24	·1051 ***	22. 36	·01305			
6. 41	31. 30 ***	8. 42	·1048 ***	23. 59	·01260			
7. 51	34. 30 ***	14. 53	·1075 ***					
8. 12	33. 10 ***	17. 40	·1091 ***					
11. 12	37. 20	18. 51	·1095 ***					
15. 16	41. 15	20. 48	·1088 ***					
16. 55	39. 45							
17. 35	40. 40	23. 22	·1071					
17. 58	39. 0							
18. 15	40. 20							
20. 12	38. 30							
21. 14	36. 0							
21. 45	36. 5							
22. 11	37. 35							
22. 45	37. 30							
23. 45	38. 40							
July 16		July 16		July 16		July 16		
0. 15	21. 38. 40	0. 52	·1066 ***	0. 20	·01173	1. 40	71 ·0	71 ·2
1. 9	39. 10			2. 15	·00996	3. 40	72 ·6	73 ·5
1. 22	40. 20	3. 38	·1052	3. 45	·00736	9. 40	72 ·5	73 ·2
2. 22	39. 45	4. 7	·1056	6. 0	·00481	21. 40	65 ·3	64 ·8
2. 31	40. 30	4. 24	·1056	7. 30	·00429			
2. 45	39. 40	4. 39	·1064	8. 33	·00420			
2. 59	40. 35 ***	5. 16	·1068	9. 45	·00456			
		5. 22	·1054	10. 33	·00525			
4. 10	36. 30 ***	9. 0	·1076	13. 7	·00944			
		9. 57	·1074	15. 25	·01282			
5. 10	39. 0	12. 26	·1081		·01168			
6. 0	35. 0	13. 7	·1090	17. 39	·01218			
6. 44	35. 30	14. 9	·1081	20. 45	·01208			
7. 3	34. 30 ***	14. 17	·1084	22. 49	·01235			
		15. 2	·1079	23. 59	·01194			
9. 43	36. 0	15. 15	·1081					
10. 15	38. 30	15. 22	·1085					
12. 32	41. 20	15. 36	·1081					
13. 26	37. 40	16. 4	·1092					
13. 52	37. 30	17. 0	·1086					
14. 22	36. 30 ***	19. 6	·1092					
		19. 8	·1096					
15. 56	40. 30	21. 27	·1089					
16. 32	36. 50	21. 36	·1083					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 16 h m	° ′ ″	July 16 h m		h m		h m	°	°
17. 42	21. 38. 30	22. 30	·1084					
18. 4	37. 50	23. 24	·1075					
18. 18	39. 0							
18. 56	39. 0							
19. 36	38. 20							
20. 45	39. 50							
21. 13	41. 30							
21. 52	39. 50							
22. 13	40. 30							
23. 15	38. 40							
	***							
23. 59	39. 30							
July 17		July 17		July 17		July 17		
0. 0	21. 39. 30	0. 0	·1074	1. 15	·01089	1. 40	68 ·7	68 ·6
	***	1. 26	·1069	2. 15	·00894	3. 40	71 ·0	71 ·2
2. 12	38. 40	2. 42	·1066	3. 53	·00401	9. 40	73 ·6	74 ·1
	***		***		·00183	21. 44	66 ·6	66 ·4
5. 25	37. 30	3. 0	·1060	4. 52	·00220			
5. 52	38. 10		***	7. 35	·00284			
6. 7	37. 30	4. 25	·1066	10. 23	·00240			
6. 36	38. 40		***	10. 47	·00266			
6. 57	37. 30	5. 15	·1064	11. 24	·00275			
7. 24	37. 20		***	12. 15	·00369			
8. 0	41. 40	6. 22	·1069	16. 51	·01247			
8. 25	40. 20	6. 54	·1068		·01135			
8. 56	41. 50	7. 39	·1086	22. 0	·01217			
9. 59	41. 30	8. 0	·1075	22. 24	·01213			
10. 14	42. 20	8. 32	·1084	23. 59	·01015			
11. 13	39. 0	9. 46	·1069					
11. 27	39. 40	10. 10	·1083					
11. 30	39. 10	10. 40	·1076					
	***	11. 14	·1096					
12. 13	43. 30	11. 25	·1087					
13. 0	38. 30	11. 36	·1091					
13. 27	40. 20	12. 14	·1079					
13. 40	39. 5	12. 40	·1086					
14. 14	41. 50	13. 11	·1086					
14. 24	37. 20	13. 39	·1090					
16. 24	39. 30	13. 53	·1087					
16. 36	38. 40	14. 28	·1101					
16. 57	38. 40	15. 12	·1090					
17. 11	38. 0	15. 48	·1096					
19. 6	39. 10	16. 10	·1092					
19. 22	39. 50	18. 59	·1101					
19. 43	38. 25	19. 7	·1095					
20. 22	40. 25	19. 10	·1097					
20. 54	37. 30	20. 37	·1085					
21. 21	41. 30	21. 9	·1062					
21. 58	39. 20	21. 34	·1054					
	***	23. 11	·1064					
22. 37	38. 25	23. 30	·1058					
	***	23. 48	·1061					
23. 59	42. 0	23. 59	·1059					
July 18		July 18		July 18		July 18		
0. 0	21. 42. 0	0. 0	·1059	3. 0	·00334	1. 40	71 ·1	71 ·7
1. 45	41. 30	0. 24	·1056	7. 26	·00381	3. 40	74 ·0	75 ·6
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 18 h m	° ′ ″	July 18 h m		July 18 h m		July 18 h m	°	°
3. 41	21. 41. 20	1. 55	·1060	9. 45	·00329	9. 40	75 ·6	76 ·0
3. 53	39. 55	2. 9	·1056	10. 21	·00338	22. 45	70 ·0	73 ·0
4. 30	40. 30	3. 31	·1055	11. 10	·00400			
5. 19	38. 40	3. 40	·1069	16. 0	·01402			
6. 0	38. 30	4. 0	·1053		·01278			
6. 45	36. 0	4. 47	·1061	21. 7	·01360			
	***	5. 16	·1054	23. 30	·01182			
7. 26	36. 0	7. 7	·1060					
7. 56	37. 50	7. 22	·1067					
9. 11	38. 30	9. 27	·1066					
9. 44	35. 40	9. 45	·1069					
10. 39	39. 50	12. 0	·1068					
10. 46	39. 40	12. 14	·1073					
11. 2	40. 50	13. 39	·1074					
11. 15	40. 0	14. 42	·1079					
11. 41	40. 20	15. 10	·1077					
11. 57	41. 30	16. 4	·1086					
12. 49	42. 0	18. 43	·1095					
14. 41	41. 30	19. 6	·1086					
15. 13	43. 0	19. 27	·1084					
	***	19. 43	·1090					
16. 1	42. 40	20. 10	·1085					
16. 15	41. 30	20. 22	·1089					
17. 22	40. 10	20. 39	·1081					
17. 40	39. 25	20. 48	·1082					
18. 10	38. 50	21. 20	·1070					
18. 31	39. 20	22. 55	·1061					
18. 49	38. 30	23. 17	·1062					
19. 11	39. 0							
20. 0	38. 50							
20. 29	36. 55							
21. 16	37. 20							
21. 43	36. 40							
22. 47	36. 55							
23. 3	37. 40							
July 19		July 19		July 19		July 19		
0. 14	21. 38. 20	0. 28	·1060	0. 0	·01215	10. 30	77 ·5	78 ·6
3. 0	37. 50	1. 30	·1055	2. 17	·00977	12. 40	74 ·6	76 ·7
3. 53	36. 45	1. 47	·1059	2. 45	·00922	13. 40	73 ·8	74 ·5
4. 41	36. 30	3. 0	·1059	3. 30	·00766	14. 40	72 ·7	74 ·0
5. 45	29. 0	3. 10	·1054	5. 12	·00320	15. 40	71 ·9	73 ·5
5. 53	29. 0	5. 25	·1055		·00388	16. 40	70 ·6	72 ·7
6. 10	27. 50	6. 0	·1052	6. 45	·00436	17. 40	69 ·4	72 ·0
6. 39	31. 30	6. 13	·1057	8. 30	·00440	18. 40	68 ·7	70 ·9
9. 40	32. 30	6. 46	·1059	11. 26	·00374	19. 40	68 ·4	70 ·3
10. 8	34. 10	7. 9	·1045	13. 9	·00533	20. 40	70 ·2	70 ·3
10. 39	33. 5	7. 18	·1047	15. 0	·00842	21. 40	71 ·2	70 ·4
11. 43	37. 20	7. 44	·1044	17. 42	·01396	22. 40	72 ·0	71 ·3
13. 1	36. 0	8. 15	·1050		·01294	23. 40	73 ·0	72 ·7
17. 26	36. 55	9. 30	·1047	19. 21	·01308			
17. 45	36. 30	12. 37	·1060		·01182			
18. 18	36. 45	14. 30	·1064	21. 50	·01265			
18. 48	35. 45	18. 16	·1079	23. 59	·01175			
19. 23	36. 50	20. 12	·1073					
20. 31	36. 45	21. 9	·1071					
22. 12	38. 40	23. 48	·1053					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 19 h m	° ′ ″	h m		h m		h m	c	c
22. 45	21. 35. 50							
23. 59	40. 30							
July 20		July 20		July 20		July 20		
0. 0	21. 40. 30	1. 13	·1044	1. 30	·00836	0. 40	74 ·0	73 ·6
			***					
1. 26	38. 55			2. 55	{·00422	1. 40	75 ·0	74 ·8
2. 0	39. 25	1. 58	·1048		{·00445	2. 40	76 ·4	76 ·3
			***	4. 50	·00496	3. 40	77 ·0	77 ·2
2. 40	38. 30							
	***	2. 22	·1045	8. 30	·00415	4. 40	78 ·2	78 ·5
			***					
3. 5	38. 30			9. 12	·00434	5. 40	78 ·9	79 ·0
	***	2. 55	·1049	10. 19	·00594	6. 40	78 ·9	79 ·3
			***					
3. 35	36. 30			13. 48	·01315	7. 40	78 ·0	79 ·0
	***	5. 27	·1051	19. 15	·01220	8. 40	77 ·8	78 ·0
			***					
3. 43	37. 30			22. 56	·01237	9. 40	76 ·2	78 ·0
	***	6. 30	·1049	23. 59	·01179	10. 40	76 ·0	77 ·6
			***					
4. 5	35. 20					11. 40	75 ·0	77 ·0
	***	7. 47	·1063			21. 40	68 ·0	66 ·6
			***					
4. 13	36. 30							
	***	8. 13	·1061					
			***					
4. 40	34. 45							
4. 54	35. 50	9. 11	·1064					
			***					
5. 45	33. 20							
6. 52	32. 20	9. 40	·1058					
			***					
7. 19	34. 50							
7. 26	34. 20	10. 29	·1056					
			***					
7. 45	35. 30							
	***	10. 43	·1062					
			***					
10. 23	32. 50							
11. 45	35. 20	11. 7	·1060					
			***					
12. 17	39. 0							
	***	12. 0	·1068					
			***					
13. 13	33. 30							
13. 45	37. 0	13. 22	·1066					
			***					
14. 3	36. 30							
14. 45	37. 30	13. 43	·1072					
			***					
15. 21 :	37. 0							
16. 32	33. 30	16. 33	·1078					
			***					
17. 45	36. 50							
18. 42	35. 35	17. 14	·1083					
			***					
18. 54	36. 30							
19. 12	35. 50	18. 38	·1084					
			***					
19. 24	36. 40							
19. 42	36. 10	19. 30	·1074					
			***					
19. 53	37. 0							
20. 0	36. 10	20. 39	·1070					
			***					
21. 43	34. 10							
	***	22. 45	·1048					
			***					
23. 59	39. 0							
		23. 59	·1051					
July 21		July 21		July 21		July 21		
0. 37	21. 39. 30	0. 0	·1051	0. 30	·01084	1. 40	71 ·6	71 ·0
			***					
1. 7	40. 30			1. 55	·00885	3. 40	73 ·6	73 ·4
2. 0	40. 20	1. 2	·1051	2. 40	·00704	9. 40	72 ·7	73 ·0
			***					
2. 58	41. 0			4. 49	{·00182	21. 40	68 ·4	69 ·2
3. 55	39. 20	1. 18	·1048		{·00206			
			***	6. 6	·00202			
4. 25	40. 30							
4. 48	38. 50	2. 47	·1054	8. 15	·00138			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 21 h m	° ′ ″	July 21 h m		July 21 h m		h m	c	c
7. 14	21. 36. 30	3. 39	·1055	8. 45	·00190			
			***					
8. 27	40. 5			11. 26	·00323			
10. 9	41. 25	5. 17	·1071	15. 23	·00918			
			***					
10. 46	40. 50			17. 0	·01064			
11. 27	41. 25	6. 6	·1070	18. 9	·01123			
			***					
12. 14	41. 10			19. 33	·01152			
12. 30	41. 40	6. 52	·1077	22. 0	·01105			
			***					
12. 44	41. 0			23. 59	·00964			
16. 29	39. 50	7. 5	·1075					
			***					
18. 17	36. 40							
19. 59	36. 55	7. 30	·1077					
			***					
20. 45	36. 45							
22. 41	40. 45	8. 30	·1094					
			***					
23. 57	41. 30							
		9. 2	·1098					
			***					
		11. 9	·1094					
			***					
		16. 8	·1105					
			***					
		18. 20	·1100					
			***					
		19. 23	·1105					
			***					
		20. 0	·1102					
			***					
		21. 17	·1079					
			***					
		22. 30	·1071					
			***					
		23. 59	·1065					
July 22		July 22		July 22		July 22		
0. 0	21. 41. 40	0. 0	·1063	1. 36	·00849	1. 40	71 ·0	71 ·7
1. 24	39. 30	2. 1	·1076	3. 10	·00642	3. 40	72 ·4	73 ·0
1. 34	38. 40	2. 54	·1079	5. 16	{·00229	9. 40	74 ·0	74 ·3
1. 42	39. 0	3. 7	·1074		{·00305	21. 40	69 ·7	69 ·7
2. 0	37. 30	3. 33	·1077	9. 52	·00231			
2. 12	38. 35	4. 37	·1069	10. 50	·00254			
2. 32	38. 30	6. 12	·1068	11. 39	·00305			
2. 57	34. 50	6. 30	·1073	14. 0	·00644			
	***	8. 2	·1078	15. 52	{·01303			
4. 23	30. 30	14. 19	·1082		{·01162			
4. 41	30. 40	14. 26	·1101	22. 0	·01179			
5. 17	28. 30	14. 39	·1093	22. 49	·01135			
5. 39	28. 40	16. 13	·1108	23. 59	·00930			
5. 51	27. 0	16. 22	·1102					
7. 0	32. 20	17. 6	·1093					
8. 50	32. 50	17. 31	·1100					
9. 14	34. 0	17. 57	·1112					
9. 51	33. 0	18. 32	·1116					
10. 13	33. 50	19. 24	·1112					
10. 39	33. 0	19. 33	·1109					
11. 9	33. 20	19. 52	·1112					
12. 4	30. 20	20. 43	·1094					
12. 45	32. 0	21. 6	·1093					
13. 6	31. 35	22. 0	·1076					
14. 8	33. 0	22. 17	·1079					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Copenhagen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. at commencement of the year.	Godhavn Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Godhavn Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
July 22		July 22						
h m	° ′ ″	h m		h m		h m		
14. 30	21. 34. 20	22. 30	·1070					
14. 45	32. 15	22. 38	·1078					
14. 57	32. 0	22. 45	·1071					
15. 17	32. 50	23. 7	·1070					
15. 39	33. 5	23. 22	·1076					
15. 45	32. 20							
16. 0	32. 20							
16. 11	29. 10							
16. 21	29. 5							
16. 28	27. 50							
16. 39	28. 45							
16. 52	28. 30							
17. 29	33. 35							
18. 15	26. 20							
	***							
19. 15	25. 20							
19. 30	23. 30							
	***							
19. 49	26. 35							
20. 8	24. 35							
	***							
20. 40	25. 0							
20. 58	22. 30							
21. 6	24. 0							
21. 15	22. 30							
	***							
22. 39	30. 0							
22. 44	28. 50							
	***							
23. 27	30. 30							
23. 38	32. 30							
23. 45	31. 30							
23. 59	33. 30							
July 23		July 23		July 23		July 23		
1. 40	21. 36. 14*	1. 40	·1060*	0. 0	·00958	1. 40	74	74 ·2
3. 40	40. 44*	3. 40	·1069*	1. 15	·00974	3. 40	76	77 ·4
9. 40	37. 33*	9. 40	·1078*	2. 25	·00351	9. 40	78	78 ·0
21. 40	36. 9*	21. 40	·1046*	3. 1	·00354	21. 40	72	70 ·7
				4. 0	·00427			
				5. 47	·00464			
				9. 45	·00372			
				11. 0	·00425			
				11. 36	·00461			
				15. 0	·01035			
				16. 39	·01367			
					·01276			
				19. 8	·01260			
				23. 20	·01256			
				23. 59	·01178			
July 24		July 24		July 24		July 24		
0. 0	21. 40. 0	1. 7	·1051	0. 0	·01182	1. 40	75	75 ·9
0. 39	42. 20	2. 52	·1054	0. 36	·01138	3. 40	78	77 ·2
1. 22	43. 0	3. 19	·1068	2. 39	·00706	9. 40	78	78 ·0
2. 0	41. 30	4. 34	·1049	3. 52	·00381	21. 40	70	70 ·7
	***	4. 55	·1062		·00474			
2. 47	41. 20	5. 30	·1051	6. 10	·00460			
3. 40	36. 30	6. 9	·1064	8. 17	·00375			

Copenhagen Mean Solar Time.	Western Declination.	Copenhagen Mean Solar Time.	Horizontal Force in parts of the whole H. F. at commencement of the year.	Godhavn Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Godhavn Mean Solar Time.	Readings of Thermometers. On H. F. Magnet.	On V. F. Magnet.
July 24		July 24		July 24				
h m	° ′ ″	h m		h m				
3. 45	21. 37. 35	6. 54	·1062	10. 6	·00386			
4. 27	34. 0	7. 9	·1069	13. 30	·00960			
5. 1	36. 0	7. 30	·1068	15. 31	·01375			
5. 30	34. 35	7. 48	·1061		·01243			
10. 10	35. 30	10. 47	·1073	18. 53	·01236			
10. 28	37. 25	11. 16	·1088	22. 30	·01275			
11. 12	33. 30	11. 39	·1076	23. 48	·01186			
11. 48	38. 0	11. 48	·1079					
12. 10	36. 5	12. 15	·1072					
	***	13. 0	·1079					
12. 45	36. 50	13. 39	·1077					
13. 7	35. 20	14. 0	·1080					
14. 0	43. 30	14. 52	·1073					
14. 56	38. 20	15. 30	·1083					
16. 0	36. 30	16. 49	·1086					
16. 26	37. 30	17. 55	·1086					
16. 39	36. 30	18. 23	·1082					
17. 8	39. 45	18. 54	·1085					
17. 50	43. 0	19. 27	·1076					
18. 16	41. 30	20. 37	·1086					
19. 0	42. 35	23. 3	·1074					
20. 13	40. 50	23. 59	·1081					
20. 45	42. 0							
20. 55	41. 45							
21. 5	42. 30							
21. 28	41. 15							
21. 45	42. 30							
21. 58	41. 0							
22. 13	42. 0							
23. 0	41. 10							
23. 19	41. 40							
23. 45	39. 30							
23. 59	40. 0							
July 25		July 25		July 25		July 25		
0. 0	21. 40. 0	0. 0	·1081	1. 0	·01137	1. 40	71	72 ·0
0. 31	42. 20		***	2. 54	·01008	3. 40	72	73 ·0
0. 59	38. 20	3. 22	·1074	4. 15	·00869	9. 40	73	74 ·2
1. 57	38. 55	3. 47	·1067	6. 30	·00585	23. 15	65	66 ·0
	***	4. 19	·1070	9. 0	·00470			
3. 18	37. 20	4. 45	·1067	10. 8	·00482			
3. 37	35. 0	5. 51	·1062	12. 0	·00635			
	***	7. 9	·1071	14. 36	·01215			
4. 51	32. 45	7. 56	·1064		·01101			
5. 11	34. 50	8. 56	·1073	16. 21	·01135			
5. 27	31. 40	9. 23	·1066	17. 22	·01089			
5. 53	32. 0	10. 30	·1066	17. 45	·01102			
	***	10. 47	·1078	18. 20	·01076			
6. 45	29. 55	10. 57	·1071	21. 30	·01124			
	***	11. 6	·1084	23. 51	·01060			
8. 10	31. 50	11. 25	·1084					
8. 39	33. 30	12. 7	·1065					
8. 51	33. 0	12. 38	·1070					
9. 6	33. 40	13. 14	·1066					
9. 43	30. 30	13. 25	·1076					
9. 58	32. 0	14. 9	·1076					
11. 27	30. 5	14. 25	·1080					
11. 47	32. 40	14. 31	·1087					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

July 23. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
July 25		July 25						
h m	° ′ ″	h m		h m		h m	°	°
12. 30	21. 27. 40	14. 43	·1089					
	***	15. 11	·1076					
13. 16	30. 15	15. 32	·1077					
13. 32	28. 10	15. 57	·1094					
13. 52	32. 40	16. 35	·1080					
14. 15	28. 0	17. 0	·1090					
14. 37	28. 30	17. 32	·1085					
15. 8	23. 35	17. 46	·1076					
	***	18. 8	·1093					
15. 52	23. 0	18. 51	·1069					
16. 15	29. 30	19. 4	·1070					
16. 36	31. 0	19. 22	·1068					
16. 51	29. 50	19. 42	·1071					
17. 0	31. 55	20. 30	·1061					
17. 15	29. 30	20. 55	·1059					
17. 40	36. 30	21. 26	·1046					
18. 21	29. 20	21. 49	·1043					
18. 41	35. 0	22. 3	·1035					
19. 10	33. 40	22. 47	·1055					
19. 25	35. 0	23. 59	·1064					
19. 39	33. 30							
19. 45	34. 25							
	***							
20. 45	31. 30							
21. 15	39. 20							
21. 32	39. 45							
21. 55	40. 50							
22. 14	39. 55							
22. 30	41. 20							
22. 52	39. 55							
23. 11	39. 55							
23. 45	36. 50							
23. 59	38. 0							
July 26		July 26		July 26		July 26		
0. 0	21. 38. 20	0. 0	·1064	0. 0	·01060	9. 45	72 ·5	73 ·0
0. 10	39. 30	0. 52	·1068	2. 5	·00836	12. 40	69 ·6	70 ·5
	***	1. 47	·1066	3. 30	·00584	13. 40	68 ·9	69 ·6
1. 42	39. 20	3. 37	·1085	5. 23	·00124	14. 40	68 ·3	68 ·9
	***	4. 23	·1081		·00142	15. 40	66 ·7	68 ·2
2. 12	40. 0	4. 43	·1082	7. 0	·00213	16. 40	66 ·0	67 ·4
	***	4. 54	·1079	9. 19	·00125	17. 40	65 ·5	66 ·8
3. 7	39. 30	5. 26	·1079	10. 35	·00154	18. 40	66 ·0	66 ·4
	***	5. 39	·1076	12. 52	·00508	19. 40	66 ·0	66 ·6
5. 27	32. 30	6. 0	·1080	17. 30	·01192	20. 40	66 ·2	66 ·6
5. 37	33. 30	6. 16	·1076		·01106	21. 40	67 ·0	66 ·7
	***	6. 43	·1075	22. 0	·01112	22. 40	68 ·0	67 ·6
6. 24	33. 25	7. 0	·1072	22. 35	·01077	23. 40	69 ·1	68 ·1
6. 41	31. 10	7. 23	·1077	22. 52	·01058			
	***	10. 39	·1078		·00530			
7. 0	29. 40	11. 54	·1087	23. 30	·00505			
7. 10	30. 20	12. 22	·1084	23. 59	·00458			
	***	12. 30	·1093					
7. 19	29. 20	12. 46	·1087					
	***	12. 55	·1091					
7. 55	29. 15	13. 15	·1084					
9. 0	32. 20	13. 33	·1088					
	***	14. 6	·1084					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
July 26		July 26						
h m	° ′ ″	h m		h m		h m	°	°
11. 30	21. 34. 0	14. 55	·1093					
	***	15. 44	·1086					
12. 13	33. 30	16. 52	·1094					
12. 37	34. 30	18. 12	·1090					
	***	19. 4	·1080					
13. 2	33. 0	20. 5	·1088					
	***	23. 59	·1070					
13. 28	34. 40							
	***							
14. 0	32. 50							
	***							
14. 45	34. 10							
	***							
15. 14	32. 30							
	***							
15. 45	33. 55							
	***							
16. 40	30. 0							
	***							
17. 57	29. 0							
19. 44	38. 55							
	***							
20. 23	35. 30							
21. 13	34. 0							
21. 22	34. 30							
22. 15	33. 30							
	***							
23. 59	37. 0							
July 27		July 27		July 27		July 27		
0. 0	21. 37. 0	0. 0	·1070	0. 0	·00460	0. 40	70 ·0	69 ·2
	***	1. 32	·1074	1. 0	·00295	1. 40	70 ·8	70 ·0
0. 37	38. 10	1. 51	·1069	1. 45	·00236	2. 40	71 ·8	71 ·1
0. 52	35. 50	2. 54	·1078	2. 28	·00123	3. 40	72 ·7	71 ·9
1. 22	36. 35	3. 17	·1071		·00435	4. 40	73 ·6	72 ·8
1. 38	36. 40	3. 36	·1074	4. 0	·00254	5. 40	74 ·2	73 ·4
1. 58	38. 0	4. 0	·1069	5. 42	·00233	6. 40	74 ·4	73 ·4
3. 21	38. 50	4. 9	·1076		·00561	7. 40	74 ·5	73 ·7
3. 52	37. 0	4. 14	·1072	6. 51	·00400	8. 40	74 ·2	73 ·5
4. 8	37. 30	4. 45	·1072		·00426	9. 40	74 ·3	73 ·6
	***	5. 17	·1077	7. 36	·00367	10. 40	74 ·0	73 ·1
4. 56	34. 55	5. 36	·1071		·00435	11. 40	73 ·5	73 ·0
	***	6. 0	·1077	9. 10	·00350	21. 40	68 ·7	69 ·1
6. 38	34. 45	6. 17	·1074	10. 51	·00336			
6. 52	33. 30	7. 0	·1082	12. 0	·00388			
	***	7. 52	·1082	15. 53	·00722			
8. 3	33. 10	8. 18	·1084	16. 52	·01103			
8. 15	33. 55	9. 20	·1081	22. 11	·01118			
9. 50	33. 0	16. 37	·1094	23. 59	·01080			
10. 19	33. 50	17. 45	·1092					
10. 52	33. 20	18. 39	·1091					
11. 11	33. 50	19. 24	·1088					
11. 17	33. 20	20. 38	·1094					
11. 34	33. 55	22. 52	·1090					
11. 49	32. 20	23. 59	·1091					
	***							
13. 24	34. 0							
13. 41	34. 40							
13. 52	34. 45							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 27								
h m	° ′ ″	h m		h m		h m		
14. 10	21. 33. 10							
	***							
15. 9	33. 30							
15. 15	33. 0							
15. 39	33. 50							
15. 47	33. 0							
	***							
16. 39	33. 30							
17. 7	30. 50							
18. 27	31. 0							
19. 15	32. 30							
20. 15	31. 40							
20. 25	30. 30							
20. 39	31. 50							
20. 54	31. 30							
22. 10	34. 30							
22. 31	34. 30							
23. 59	36. 45							
July 28		July 28		July 28		July 28		
0. 0	21. 36. 45	0. 0	·1091	0. 0	·01080	1. 40	70 ·0	69 ·0
0. 31	35. 30		***	0. 40	·01040	3. 40	71 ·2	71 ·6
0. 52	37. 10	2. 54	·1084	1. 49	·00964	9. 40	71 ·5	73 ·0
1. 14	34. 40	3. 11	·1078	5. 17	·00457	21. 40	64 ·9	64 ·6
	***	5. 7	·1069	5. 53	·00381			
1. 45	37. 0	5. 27	·1071	7. 48	·00260			
	***	5. 44	·1065		·00324			
3. 29	32. 45	6. 6	·1074	10. 13	·00290			
	***		***	11. 24	·00394			
4. 11	34. 30	12. 17	·1086	15. 12	·01114			
	***	13. 41	·1096		·01094			
4. 51	32. 10	14. 2	·1089	17. 0	·01106			
5. 1	32. 40	17. 55	·1100	22. 18	·01043			
	***	20. 18	·1089	23. 59	·00876			
6. 15	29. 0	23. 0	·1078					
	***	23. 59	·1077					
8. 2	34. 0							
9. 1	33. 40							
	***							
10. 6	34. 50							
	***							
10. 24	33. 40							
	***							
11. 44	34. 40							
	***							
13. 0	31. 40							
13. 30	33. 0							
13. 48	32. 20							
14. 0	32. 50							
15. 22	32. 20							
15 53	33. 5							
16 31	32. 50							
16 45	33. 30							
18. 0	31. 45							
19. 19	34. 45							
	***							
20. 53	31. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 28								
h m	° ′ ″	h m		h m		h m		
22. 12	21. 33. 45							
	***							
22. 22	34. 45							
	***							
22. 52	35. 20							
23. 41	38. 5							
23. 58	37. 30							
July 29		July 29		July 29		July 29		
0. 0	21. 37. 35	0. 0	·1077	0. 0	·00870	1. 40	69 ·1	68 ·6
1. 5	40. 40	1. 37	·1082	1. 0	·00676	3. 40	71 ·0	72 ·4
1. 30	39. 10	2. 41	·1070	2. 5	·00383	9. 50	75 ·5	76 ·8
1. 39	39. 45	4. 24	·1073	2. 46	·00136	21. 40	67 ·0	66 ·6
1. 52	38. 20	5. 0	·1071		·00164			
2. 24	37. 40	6. 22	·1078	3. 33	·00225			
2. 32	38. 40	6. 30	·1077		·00382			
	***	6. 46	·1078	4. 18	·00344			
3. 0	37. 0	7. 4	·1075	6. 30	·00373			
3. 22	38. 10	7. 24	·1076	7. 43	·00370			
4. 1	37. 0	7. 30	·1080	9. 52	·00320			
5. 12	33. 30	8. 3	·1079	10. 18	·00326			
5. 38	35. 50	8. 11	·1077	11. 20	·00414			
5. 53	34. 45	8. 40	·1079	15. 32	·01257			
7. 12	34. 35	9. 0	·1076	20. 25	·01149			
7. 53	30. 30	11. 34	·1078	22. 30	·01166			
9. 15	34. 30	11. 42	·1084	23. 59	·01080			
10. 24	34. 50	13. 40	·1089					
			***					
11. 6	33. 0							
11. 19	33. 15	13. 47	·1086					
11. 34	32. 55		***					
11. 54	33. 30	16. 36	·1094					
12. 42	33. 20	17. 30	·1092					
13. 15	31. 45	18. 15	·1098					
14. 12	32. 50	20. 31	·1086					
15. 53	31. 45	20. 56	·1087					
16. 59	31. 55	22. 0	·1081					
17. 24	32. 30	22. 48	·1082					
18. 49	31. 50	23. 11	·1086					
19. 9	31. 0	23. 59	·1083					
19. 27	32. 0							
19. 57	32. 30							
20. 9	32. 20							
20. 44	33. 10							
23. 0	35. 10							
23. 13	36. 20							
23. 59	37. 30							
July 30		July 30		July 30		July 30		
0. 0	21. 37. 30	0. 0	·1083	0. 0	·01075	1. 40	70 ·5	70 ·3
0. 52	37. 0		***	0. 40	·00976	3. 40	73 ·2	73 ·4
1. 10	37. 50	1. 19	·1084	1. 50	·00794	9. 40	75 ·0	75 ·0
2. 39	36. 50		***	2. 52	·00460	21. 40	71 ·0	71 ·0
2. 51	38. 30	2. 14	·1080	3. 33	·00219			
	***		***		·00249			
3. 12	38. 30	3. 7	·1085	6. 10	·00344			
4. 15	33. 0		***	7. 0	·00347			
5. 9	30. 40	3. 36	·1077	10. 15	·00276			
5. 12	31. 10		***	11. 30	·00323			
6. 7	29. 50	3. 48	·1079	16. 55	·01036			
6. 29	31. 0		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 30		July 30		July 30				
h m	° ′ ″	h m		h m			°	°
7. 29	21. 29. 50	4. 8	·1077	19. 44	·01337			
8. 27	33. 20		***		·01243			
9. 13	33. 40	5. 22	·1074	22. 9	·01305			
9. 26	34. 30		***	23. 39	·01153			
10. 13	32. 25	6. 14	·1069					
11. 17	34. 40		***					
	***	7. 0	·1075					
12. 10	34. 20		***					
12. 34	35. 30	7. 55	·1074					
13. 42	33. 40		***					
14. 4	34. 5	9. 42	·1086					
14. 13	33. 40	10. 30	·1078					
14. 27	34. 30	10. 40	·1082					
14. 45	33. 35	10. 49	·1079					
15. 0	34. 0	18. 22	·1086					
15. 31	32. 5	18. 40	·1082					
	***	22. 13	·1066					
18. 10	32. 30	23. 45	·1069					
18. 41	31. 5							
18. 52	31. 40							
19. 2	31. 0							
19. 10	31. 45							
19. 55	30. 0							
21. 12	29. 30							
23. 15	37. 5							
23. 31	36. 45							
23. 59	37. 30							
July 31		July 31		July 31		July 31		
0. 0	21. 37. 30	0. 45	·1064	0. 0	·01148	1. 40	73	74
1. 0	38. 0	0. 58	·1069	0. 40	·01040	3. 40	75	76
1. 26	38. 20	1. 9	·1066	2. 18	·00682	9. 40	78	78
1. 40	40. 50	1. 24	·1069	3. 15	·00421	21. 40	69	70
1. 59	38. 10	1. 44	·1059	5. 39	·00482			
3. 4	36. 35	2. 0	·1063	8. 30	·00404			
3. 15	37. 10	2. 31	·1054	9. 45	·00420			
3. 39	35. 0	2. 57	·1057	11. 24	·00563			
4. 56	32. 30	6. 39	·1058	14. 52	·01354			
5. 5	33. 0	6. 58	·1054		·01284			
5. 11	32. 0	7. 15	·1062	19. 10	·01280			
5. 16	32. 50	7. 26	·1054	23. 59	·01278			
5. 45	29. 50	7. 48	·1062					
6. 22	31. 20	8. 12	·1057					
7. 0	29. 35	8. 36	·1065					
8. 13	33. 20	8. 54	·1058					
8. 30	32. 30	10. 30	·1066					
8. 45	33. 45	10. 49	·1062					
9. 8	32. 0	12. 58	·1066					
9. 11	32. 50	17. 17	·1081					
9. 30	32. 0	21. 49	·1078					
10. 6	33. 55	23. 51	·1072					
10. 30	34. 30							
11. 21	34. 0							
16. 42	33. 50							
19. 1	31. 55							
19. 32	31. 45							
20. 27	32. 20							
21. 40	34. 30							
22. 14	34. 20							
July 31								
h m	° ′ ″							
22. 28	21. 33. 30							
23. 7	34. 0							
23. 19	35. 10							
23. 51	34. 50							
23. 59	35. 55							
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 0	21. 35. 55	0. 0	·1073	0. 0	·01260	1. 40	71	71
1. 21	37. 40	1. 0	·1074	1. 15	·01284	3. 40	72	74
1. 38	37. 0	1. 35	·1075	3. 30	·01[illegible]	9. 40	74	75
1. 52	38. 40	1. 47	·1071	7. 55	·00[illegible]	22. 25	71	72
2. 36	37. 5		***	9. 18	·00300			
3. 4	37. 10	3. 3	·1076	10. 53	·00321			
3. 13	38. 10		***	14. 55	·00697			
3. 30	37. 30	3. 12	·1075	18. 20	·01[illegible]			
3. 53	38. 40		***	20. 30	·01154			
5. 31	33. 30	3. 52	·1079	22. 0	·01150			
6. 12	33. 0		***	23. 0	·01084			
	***	5. 30	·1071	23. 59	·01035			
6. 28	34. 20		***					
	***	8. 34	·1082					
6. 49	34. 0		***					
8. 0	37. 0	9. 54	·1080					
8. 15	36. 30	12. 30	·1089					
8. 30	37. 20		***					
8. 48	36. 30	13. 46	·1090					
9. 14	37. 20		***					
9. 28	36. 30	14. 2	·1093					
	***		***					
11. 45	36. 10	14. 23	·1090					
	***		***					
12. 49	33. 20	18. 54	·1086					
13. 51	34. 0	23. 59	·1066					
14. 42	32. 10							
15. 7	32. 20							
15. 15	32. 50							
15. 26	32. 20							
16. 9	33. 10							
	***							
17. 19	31. 10							
17. 37	31. 40							
17. 51	31. 55							
18. 42	32. 35							
19. 28	32. 15							
20. 44	32. 30							
21. 12	31. 45							
21. 58	31. 40							
22. 11	32. 40							
22. 20	31. 50							
	***							
22. 56	32. 40							
23. 12	31. 0							
23. 28	32. 0							
23. 36	31. 30							
23. 59	32. 30							
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 0	21. 32. 50	0. 0	·1076	0. 0	·01010	9. 30	76	77
0. 45	33. 10	3. 48	·1069	2. 39	·00618	12. 40	73	74

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
h m	° ′ ″	h m		h m		h m	°	°
1. 47	21. 36. 40	3. 58	·1066	4. 31	·00281	13. 40	72 ·2	73 ·1
2. 24	35. 0	5. 45	·1068		·00345	14. 40	72 ·0	72 ·3
2. 39	36. 30	7. 12	·1073	8. 20	·00349	15. 40	71 ·4	72 ·0
	***	8. 2	·1072	9. 56	·00316	16. 40	70 ·3	71 ·8
5. 22	31. 0	8. 8	·1076	12. 39	·00676	17. 40	69 ·7	71 ·3
5. 37	32. 25	8. 26	·1074	15. 36	·01337	18. 40	69 ·4	70 ·9
6. 0	31. 40	8. 37	·1076		·01255	19. 40	69 ·1	69 ·5
7. 13	32. 25	8. 52	·1073	20. 0	·01234	20. 40	69 ·7	69 ·7
7. 25	31. 50	10. 13	·1077	22. 9	·01225	21. 40	71 ·5	72 ·0
8. 36	32. 25	10. 45	·1077	23. 59	·01015	22. 40	71 ·8	72 ·2
9. 52	36. 50	11. 22	·1080			23. 40	73 ·0	72 ·5
10. 29	36. 0	11. 49	·1078					
10. 58	37. 20	12. 45	·1080					
12. 43	34. 0	14. 2	·1075					
13. 59	35. 0	14. 50	·1079					
14. 43	32. 50	15. 23	·1076					
16. 6	33. 0	16. 36	·1081					
16. 28	32. 20	18. 17	·1080					
	***	18. 52	·1074					
18. 30	31. 10	19. 5	·1082					
18. 54	31. 55	19. 41	·1081					
19. 6	31. 10	20. 3	·1078					
19. 25	32. 0	20. 20	·1080					
20. 11	28. 30	21. 36	·1075					
21. 47	31. 50	22. 3	·1075					
22. 2	33. 20	23. 0	·1068					
22. 11	32. 50							
22. 36	35. 0							
22. 45	35. 0							
23. 37	39. 0							
23. 52	38. 30							
23. 59	38. 55							
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 0	21. 38. 55	0. 0	·1056	0. 0	·01010	0. 40	74 ·5	74 ·2
1. 47	37. 50	1. 8	·1056	0. 54	·00854	1. 40	76 ·0	75 ·0
1. 59	36. 50	1. 36	·1061	2. 33	·00383	2. 40	77 ·0	77 ·0
2. 9	37. 20	2. 37	·1051		·00341	3. 40	79 ·0	78 ·0
2. 40	32. 35	3. 6	·1054	3. 0	·00481	4. 40	79 ·6	80 ·0
	***	3. 28	·1063	7. 36	·00530	5. 40	81 ·0	81 ·0
4. 16	33. 0	3. 38	·1091	11. 0	·00434	6. 40	81 ·5	81 ·2
	***	4. 0	·1099	12. 6	·00474	7. 40	82 ·0	82 ·0
5. 1	28. 50	4. 15	·1046	14. 11	·00706	8. 40	82 ·0	82 ·0
	***	5. 0	·1040	16. 0	·00997	9. 40	81 ·3	81 ·6
6. 4	30. 5	5. 32	·1032	17. 58	·01385	10. 40	81 ·0	80 ·6
6. 22	31. 50	6. 4	·1037		·01341	11. 40	80 ·0	80 ·3
	***	6. 32	·1048	21. 38	·01342	21. 40	74 ·0	73 ·0
7. 47	32. 30	6. 43	·1053		·01145			
8. 3	31. 40	7. 22	·1048	22. 55	·01172			
8. 52	30. 35	7. 50	·1052	23. 59	·01090			
9. 11	32. 40	8. 17	·1051					
9. 28	32. 25	10. 2	·1064					
10. 9	33. 30	10. 36	·1056					
	***	10. 53	·1060					
10. 42	31. 20	12. 10	·1056					
	***	14. 24	·1062					
11. 7	31. 0	14. 54	·1072					
11. 45	33. 30	15. 32	·1068					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 3		Aug. 3						
h m	° ′ ″	h m		h m		h m	°	°
11. 59	21. 33. 0	18. 37	·1073					
13. 52	33. 35	18. 54	·1068					
14. 22	34. 50	21. 48	·1051					
15. 8	33. 10	23. 9	·1052					
15. 50	34. 0	23. 59	·1054					
17. 7	33. 10							
17. 19	33. 45							
17. 37	32. 35							
	***							
21. 28	31. 30							
	***							
22. 6	33. 30							
22. 21	33. 20							
	***							
23. 22	37. 20							
23. 42	36. 50							
23. 59	37. 30							
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 0	21. 37. 35	0. 0	·1054	0. 0	·01078	1. 40	78 ·0	77 ·4
3. 37	35. 0		***	1. 0	·00882	3. 40	78 ·9	80 ·0
4. 10	32. 45	1. 52	·1060	2. 30	·00500	9. 40	80 ·7	81 ·3
4. 45	37. 0		***	3. 37	·00563	21. 40	69 ·6	71 ·2
6. 0	34. 40	2. 2	·1054	7. 45	·00515			
	***		***	8. 24	·00476			
7. 30	35. 50	2. 30	·1056	9. 38	·00480			
	***		***	10. 45	·00558			
9. 56	34. 0	2. 48	·1054	11. 39	·00654			
10. 26	34. 30		***	15. 23	·01403			
11. 54	34. 10	3. 38	·1062		·01341			
12. 44	35. 30		***	20. 30	·01295			
13. 6	35. 0	4. 14	·1051	23. 59	·01252			
	***		***					
14. 31	36. 30	4. 24	·1054					
	***		***					
15. 6	35. 30	5. 45	·1051					
	***		***					
15. 53	36. 45	6. 0	·1057					
16. 24	35. 30		***					
	***	6. 39	·1056					
19. 41	35. 50		***					
	***	9. 32	·1069					
21. 57	38. 50		***					
22. 11	40. 20	9. 40	·1064					
22. 45	41. 15		***					
23. 59	43. 55	9. 48	·1066					
			***					
		11. 9	·1067					
			***					
		11. 33	·1073					
			***					
		11. 55	·1069					
			***					
		16. 36	·1085					
			***					
		20. 9	·1089					
			***					
		21. 46	·1085					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 4 h m		h m		h m	°	°
		23. 38	·1090 ***					
		23. 59	·1091					
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
0. 0	21. 43. 55	0. 0	·1091	0. 0	·01248	1. 40	69 ·4	71 ·0
0. 23	41. 50	0. 38	·1097	1. 10	·01243	3. 40	70 ·2	71 ·3
2. 56	42. 0	3. 10	·1104	2. 51	·01289	9. 40	73 ·0	74 ·0
4. 11	34. 50	4. 43	·1084	4. 0	·01254	21. 40	67 ·0	68 ·0
5. 10	32. 0	8. 18	·1086	5. 45	·01136			
5. 30	32. 30	8. 45	·1082	8. 30	·00820			
5. 43	31. 25	9. 41	·1087 ***	10. 0	·00743			
5. 56	31. 45			11. 6	·00805			
6. 11	31. 10	11. 30	·1082 ***	15. 7	·01293			
6. 33	31. 30				·01175			
6. 58	30. 30	11. 58	·1079 ***	21. 21	·01200			
7. 26	30. 30				·00967			
7. 41	31. 30	17. 2	·1093 ***	23. 59	·00894			
7. 55	31. 30							
8. 36	32. 35	19. 0	·1092 ***					
9. 6	32. 40							
9. 15	31. 0	19. 18	·1089 ***					
9. 41	32. 5							
10. 0	33. 30	20. 6	·1091 ***					
11. 11	32. 40							
12. 14	31. 45	20. 30	·1088 ***					
12. 30	33. 40 ***	21. 31	·1091 ***					
16. 16	35. 0							
17. 7	32. 50 ***	23. 59	·1079					
20. 22	33. 30							
20. 56	35. 30							
22. 13	35. 40 ***							
22. 29	37. 20 ***							
22. 53	37. 10 ***							
23. 14	37. 40							
23. 26	37. 0							
23. 59	38. 40							
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
0. 0	21. 38. 40	0. 0	·1079	0. 0	·00894	1. 40	69 ·2	70 ·0
1. 57	42. 20	0. 52	·1078	1. 34	·00754	3. 40	71 ·2	71 ·2
2. 15	40. 10 ***	1. 6	·1080	2. 45	·00602	9. 40	72 ·0	73 ·0
		1. 34	·1076	4. 39	·00185	21. 40	63 ·4	65 ·2
3. 35	38. 0	2. 0	·1080	7. 15	·00170			
3. 45	39. 10	4. 12	·1069	9. 32	·00121			
4. 3	36. 0	4. 21	·1074	10. 5	·00149			
4. 21	36. 25	4. 31	·1070	11. 34	·00360			
4. 44	34. 0	4. 52	·1075	15. 39	·01189			
4. 58	35. 30	5. 13	·1072		·01112			
5. 11	33. 30	6. 4	·1070	18. 45	·01126			
5. 40	34. 30	10. 0	·1080	21. 36	·01082			
5. 58	32. 0 ***	16. 36	·1094	22. 24	·00931			
		18. 51	·1093	22. 53	·00900			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 6 h m	° ′ ″	Aug. 6 h m		Aug. 6 h m		h m	°	°
6. 43	21. 30. 30 ***	21. 10	·1087 ***	23. 59	·00862			
7. 37	34. 30 ***	22. 12	·1077					
		23. 36	·1079					
8. 52	32. 30	23. 59	·1085					
9. 21	34. 20							
9. 41	33. 40							
10. 58	35. 30							
11. 24	34. 20 ***							
11. 44	35. 30 ***							
15. 11	33. 40							
15. 58	34. 0 ***							
17. 29	32. 40							
18. 2	32. 40							
18. 16	32. 0							
18. 52	32. 45							
19. 7	31. 50							
19. 18	32. 20							
19. 30	31. 30 ***							
20. 35	33. 10							
20. 45	32. 30							
21. 13	34. 0							
21. 23	33. 50							
21. 37	34. 35							
21. 44	34. 0							
21. 54	35. 10							
22. 12	34. 10							
23. 0	35. 45							
23. 35	36. 55							
23. 59	41. 0							
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
0. 0	21. 41. 0	0. 0	·1085	0. 0	·00853	1. 40	66 ·0	66 ·3
0. 30	43. 0	0. 10	·1088	0. 49	·00779	3. 40	67 ·0	67 ·4
0. 52	42. 20	0. 23	·1084	2. 39	·00696	9. 40	68 ·0	68 ·6
1. 13	43. 30	0. 30	·1090	3. 30	·00621	21. 40	63 ·0	64 ·0
2. 30	41. 45	0. 38	·1091	7. 11	·00090			
2. 46	40. 30	0. 45	·1081	8. 0	·00000			
2. 55	41. 10	0. 54	·1077	10. 32	·00014			
3. 15	39. 30	1. 9	·1080	13. 9	·00294			
3. 28	41. 30	1. 50	·1074	15. 53	·00622			
3. 51	38. 40	2. 37	·1084	18. 30	·00876			
3. 59	40. 0	3. 9	·1076	18. 38	·00920			
4. 12	38. 20	3. 35	·1086	22. 0	·00938			
4. 36	37. 20 ***	3. 40	·1080	23. 53	·00854			
		3. 54	·1082					
5. 39	37. 30	4. 0	·1092					
6. 21	38. 30	4. 11	·1077 ***					
7. 45	33. 10							
9. 2	35. 30	5. 28	·1078					
9. 13	34. 20	5. 54	·1083					
10. 0	34. 20	6. 40	·1085					
10. 12	35. 0	8. 29	·1104					
10. 36	34. 35	9. 43	·1098					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 7		Aug. 7						
h m	° ′ ″	h m		h m		h m	°	°
10. 44	21. 33. 30	9. 54	·1102					
10. 55	34. 20	10. 0	·1110					
11. 9	34. 10	10. 10	·1102					
11. 24	34. 45	10. 17	·1105					
11. 36	33. 0	10. 24	·1096					
11. 45	34. 0	10. 37	·1104					
12. 24	32. 45	11. 27	·1104					
12. 44	35. 25	11. 36	·1112					
13. 9	33. 35	11. 40	·1100					
13. 26	34. 45	12. 30	·1096					
13. 51	34. 40	12. 43	·1103					
14. 24	35. 30	12. 55	·1105					
	***	13. 36	·1098					
16. 28	31. 30	14. 0	·1102					
16. 59	32. 0	14. 27	·1097					
17. 29	31. 45	15. 24	·1098					
18. 44	31. 50	17. 9	·1092					
19. 19	30. 30	17. 23	·1098					
19. 30	32. 0	18. 11	·1096					
	***	20. 10	·1102					
20. 44	32. 50	21. 25	·1095					
21. 0	34. 30	23. 0	·1079					
21. 32	35. 30	23. 7	·1070					
23. 37	41. 55							
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
0. 10	21. 41. 50	1. 0	·1073	0. 10	·00842	1. 40	63·3	64·0
0. 45	44. 45	1. 22	·1082	3. 37	·00754	3. 40	64·0	65·0
0. 47	46. 30	2. 40	·1097	7. 23	·00503	9. 40	64·7	65·0
1. 4	44. 30	4. 17	·1094	11. 21	·00517	22. 50	62·4	63·0
	***	4. 32	·1103	14. 30	·00635			
2. 11	44. 30	4. 40	·1101	18. 39	·00716			
4. 7	40. 10	5. 25	·1105	20. 30	·00713			
4. 13	40. 0	5. 31	·1109	22. 51	·00582			
4. 30	41. 30		***	23. 59	·00568			
4. 37	40. 35	5. 48	·1102					
4. 52	40. 50		***					
5. 23	38. 20	6. 33	·1106					
5. 39	38. 45		***					
	***	6. 45	·1100					
6. 40	38. 50		***					
6. 52	38. 0	7. 0	·1099					
7. 9	38. 40		***					
8. 15	32. 30	7. 39	·1106					
8. 29	33. 30		***					
8. 47	33. 30	7. 44	·1098					
	***		***					
9. 40	37. 10	8. 2	·1097					
10. 13	34. 30		***					
	***	8. 23	·1105					
10. 30	35. 30		***					
10. 45	34. 30	9. 5	·1091					
13. 0	37. 55		***					
13. 15	37. 0	9. 36	·1101					
14. 12	36. 40		***					
14. 44	38. 20	9. 47	·1097					
15. 11	37. 5		***					
15. 58	38. 0	10. 0	·1100					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 8		Aug. 8						
h m	° ′ ″	h m		h m		h m	°	°
17. 8	21. 35. 20	10. 32	·1094					
17. 29	35. 0		***					
18. 42	32. 50	10. 43	·1098					
19. 4	33. 40		***					
19. 28	33. 0	13. 30	·1099					
	***		***					
20. 42	33. 40	14. 15	·1100					
	***		***					
21. 35	37. 0	14. 25	·1103					
22. 26	37. 35		***					
	***	19. 22	·1104					
23. 59	39. 30		***					
		21. 54	·1090					
			***					
		22. 57	·1079					
			***					
		23. 59	·1075					
			***					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 0	21. 39. 30	0. 0	·1075	0. 0	·00540	7. 36	67·2	68·5
	***	0. 39	·1074	3. 25	·00202	12. 40	65·0	67·2
0. 30	39. 55	1. 12	·1084	7. 0	·00115	13. 40	64·4	66·4
	***	2. 7	·1083	11. 49	·00088	14. 40	64·0	65·8
1. 11	43. 30	2. 27	·1091	13. 10	·00177	15. 40	63·7	65·8
2. 0	39. 30	2. 58	·1086	18. 55	·00963	16. 40	63·2	65·2
	***	3. 30	·1089	20. 21	·01114	17. 40	62·8	64·8
2. 15	40. 10	4. 0	·1084		·01054	18. 40	62·4	64·2
2. 28	39. 0	4. 24	·1090	21. 0	·01050	19. 40	62·3	64·9
	***	4. 45	·1082		·00856	20. 40	62·0	63·5
3. 27	38. 0	5. 20	·1086	23. 59	·00856	21. 40	63·0	63·5
4. 31	33. 0	6. 8	·1081			22. 40	63·5	64·0
	***	6. 44	·1087			23. 40	64·7	67·0
5. 44	30. 50	7. 33	·1084					
6. 15	30. 40	8. 54	·1086					
6. 44	32. 45	10. 7	·1092					
8. 3	33. 50	10. 30	·1091					
8. 38	32. 50		(†)					
9. 12	33. 0	21. 40	·1087*					
9. 45	34. 30							
10. 9	33. 30							
10. 42	36. 50							
	(†)							
21. 40	34. 54*							
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
	(†)		(†)	0. 0	·00842	0. 40	66·0	67·0
1. 28	21. 37. 50	1. 20	·1064	1. 12	·00534	1. 40	67·2	68·0
1. 41	37. 20		***	2. 34	·00180	2. 40	68·0	68·5
2. 15	39. 20	2. 0	·1068	4. 52	·00316	3. 40	69·0	69·5
2. 30	37. 25	2. 52	·1064	7. 30	·00368	4. 40	70·5	71·0
3. 30	36. 30	11. 7	·1080	12. 37	·00364	5. 40	71·1	72·0
3. 59	34. 0	11. 20	·1077	15. 50	·00569	6. 40	72·0	72·0
4. 12	34. 0	11. 49	·1079	18. 38	·00816	7. 40	72·0	72·2
4. 16	35. 0	11. 57	·1082	20. 30	·00919	8. 40	71·8	72·0
4. 45	32. 0	13. 6	·1081	21. 21	·00926	9. 40	71·5	73·0
4. 59	33. 40	17. 30	·1091	22. 15	·00882	10. 40	71·5	73·0
5. 14	32. 30	20. 9	·1091	23. 59	·00669	11. 40	71·4	72·7
5. 43	34. 20	20. 54	·1086			21. 44	69·4	70·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 10		Aug. 10						
h m	° ′ ″	h m		h m		h m	°	°
6. 16	21. 32. 20	22. 39	·1059					
6. 44	32. 45	22. 45	·1056					
6. 58	32. 0	22. 52	·1066					
	***	23. 33	·1074					
8. 45	32. 0	23. 43	·1070					
9. 52	34. 50	23. 59	·1075					
	***							
13. 25	34. 45							
	***							
15. 19	36. 40							
15. 36	35. 30							
16. 28	36. 20							
17. 1	34. 55							
17. 31	35. 0							
	***							
19. 0	32. 45							
	***							
20. 16	32. 40							
20. 33	30. 50							
21. 27	33. 40							
22. 12	33. 45							
	***							
22. 59	37. 30							
23. 10	39. 5							
	***							
23. 59	41. 45							
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 0	21. 41. 45	0. 0	·1075	0. 0	·00658	1. 40	71 ·9	71 ·4
0. 10	42. 0	2. 26	·1074	1. 15	·00544	3. 40	73 ·0	73 ·2
0. 15	41. 10	3. 14	·1065	2. 30	·00358	19. 40	74 ·0	74 ·3
	***	3. 22	·1073	3. 4	·00413	21. 40	67 ·4	68 ·0
			***					
0. 41	42. 40			3. 45	·00515			
0. 58	41. 0	3. 45	·1071	5. 10	·00496			
1. 24	42. 30		***	10. 39	·00474			
2. 12	43. 30	4. 40	·1075	11. 34	·00540			
5. 21	33. 40		***	17. 3	·01335			
5. 54	35. 50	5. 15	·1070	20. 30	·01280			
6. 32	35. 0	6. 19	·1076	23. 0	·01277			
	***	6. 28	·1073	23. 59	·01216			
7. 59	37. 50	6. 41	·1075					
8. 30	28. 30	7. 0	·1091					
8. 45	31. 30		***					
	***	7. 22	·1083					
9. 7	31. 40		***					
	***	7. 32	·1086					
9. 45	34. 0		***					
10. 0	33. 30	7. 51	·1083					
10. 22	35. 30		***					
11. 0	35. 10	8. 7	·1090					
11. 12	35. 40	8. 17	·1087					
13. 49	35. 30	8. 24	·1080					
14. 7	38. 20	8. 53	·1089					
14. 30	34. 0	9. 5	·1084					
15. 30	34. 50	9. 16	·1088					
16. 15	36. 40	9. 39	·1084					
	***	10. 10	·1084					
18. 27	33. 45	10. 35	·1089					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 11		Aug. 11						
h m	° ′ ″	h m		h m		h m	°	°
21. 11	21. 36. 30	11. 0	·1089					
22. 17	40. 10	11. 14	·1100					
22. 32	38. 0	11. 27	·1091					
22. 44	39. 30	11. 39	·1094					
23. 0	37. 25	12. 2	·1092					
23. 17	38. 30	12. 12	·1094					
	***	13. 30	·1093					
23. 44	37. 35	13. 44	·1087					
23. 56	38. 20	14. 8	·1087					
23. 59	38. 30	14. 24	·1102					
		14. 38	·1102					
		14. 57	·1092					
		15. 25	·1095					
		16. 0	·1092					
		21. 9	·1093					
		21. 41	·1088					
		22. 37	·1085					
		23. 59	·1066					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 7	21. 40. 0	0. 0	·1066	0. 0	·01210	1. 40	70 ·2	71 ·2
0. 45	38. 30	1. 7	·1062	0. 53	·01106	3. 40	72 ·0	73 ·6
1. 26	38. 20	1. 32	·1069	2. 0	·00884	9. 40	77 ·0	77 ·8
2. 46	33. 10	2. 40	·1060	3. 33	{ ·00428	21. 50	69 ·0	70 ·0
3. 12	33. 20	3. 16	·1074		{ ·00496			
3. 36	31. 40	3. 32	·1067	6. 45	·00603			
3. 42	33. 40		***	10. 40	·00563			
3. 52	31. 45	4. 35	·1074	14. 11	·00816			
4. 6	31. 10	5. 30	·1065	16. 0	·01040			
	***	6. 6	·1067	17. 32	{ ·01334			
4. 40	33. 30	6. 41	·1077		{ ·01288			
	***	7. 0	·1066	23. 0	·01321			
5. 12	31. 10	7. 22	·1063	23. 59	·01243			
5. 37	31. 0	7. 35	·1070					
	***	7. 47	·1064					
6. 0	32. 30	8. 1	·1067					
7. 36	30. 30	8. 8	·1074					
8. 42	31. 30	8. 23	·1073					
	***	8. 32	·1065					
10. 11	35. 30	9. 0	·1077					
10. 29	34. 0	9. 36	·1071					
10. 44	35. 20	9. 43	·1080					
11. 12	32. 50	9. 55	·1081					
	***	10. 0	·1073					
11. 45	34. 30	10. 14	·1066					
12. 30	39. 0	10. 55	·1076					
13. 15	34. 0	11. 56	·1072					
13. 42	32. 30	12. 23	·1088					
14. 42	34. 10	12. 34	·1089					
15. 36	37. 20	12. 54	·1074					
16. 29	33. 0	13. 28	·1079					
17. 7	34. 0	13. 39	·1071					
	***	14. 0	·1073					
17. 52	31. 20	14. 9	·1071					
18. 0	32. 10	14. 18	·1076					
18. 13	31. 20	14. 35	·1076					
	***	14. 46	·1071					
18. 34	33. 30	15. 25	·1075					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Aug. 12	
h m	° ′ ″
18. 48	21. 32. 0
19. 10	33. 30
19. 41	33. 35
20. 10	36. 50
20. 21	36. 0
22. 13	39. 30
	***
23. 18	36. 0
23. 59	37. 45
Aug. 13	
0. 0	21. 37. 50
0. 16	38. 30
0. 47	38. 10
1. 15	35. 30
1. 45	36. 30
2. 8	41. 30
2. 21	39. 40
	***
2. 43	39. 40
3. 35	30. 0
3. 46	32. 30
3. 55	32. 0
4. 0	33. 10
4. 11	33. 0
4. 40	35. 30
5. 3	33. 30
	***
5. 35	34. 0
5. 43	32. 30
5. 51	34. 0
6. 21	33. 0
6. 30	32. 30
7. 11	32. 25
7. 27	31. 50
8. 0	32. 30
8. 15	36. 55
8. 44	31. 35
8. 57	33. 20
9. 7	33. 0
9. 43	35. 20
9. 46	37. 55
10. 0	35. 30
10. 22	36. 50
10. 49	34 50
11. 13	38. 0
11. 28	37. 30
	(†)
15. 17	35. 50
15. 39	36. 30
16. 4	35. 0
	***
17. 15	36. 10

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 12	
h m	
15. 45	·1070
16. 32	·1092
16. 58	·1090
17. 22	·1080
17. 27	·1083
17. 37	·1078
18. 24	·1082
18. 38	·1077
19. 8	·1080
19. 43	·1077
21. 32	·1079
22. 45	·1058
23. 10	·1058
23. 59	·1063
Aug. 13	
0. 0	·1063
0. 9	·1061
0. 30	·1047
1. 9	·1073
1. 26	·1064
1. 37	·1068
2. 11	·1051
2. 30	·1062
2. 52	·1068
3. 35	·1063
3. 45	·1055
4. 0	·1055
4. 16	·1050
4. 32	·1059
4. 52	·1061
5. 36	·1050
5. 56	·1049
6. 12	·1059
6. 51	·1052
7. 4	·1062
7. 27	·1066
7. 38	·1074
8. 0	·1071
8. 22	·1074
8. 45	·1063
9. 24	·1073
9. 52	·1072
10. 8	·1081
	(†)
14. 13	·1076
15. 15	·1077
15. 36	·1079
19. 25	·1074
21. 7	·1081
21. 57	·1079
22. 28	·1079
22. 52	·1075
23. 59	·1078

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Aug. 13	
0. 0	·01238
0. 45	·01180
1. 4	·01139
1. 45	·01055
3. 48	·00554
	·00622
10. 30	·00614
12. 15	00659
15. 43	·01059
18. 23	·01416
18. 51	·01380
21. 45	·01356
	·01104
23. 3	·01178
	·01144
23. 59	·01184

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Aug. 13		
1. 40	73 ·0	73 ·0
3. 40	75 ·5	75 ·5
9. 40	77 ·5	78 ·0
21. 40	70 ·4	71 ·3

Göttingen Mean Solar Time.	Western Declination.
Aug. 14	
h m	° ′ ″
17. 42	21. 35. 10
18. 41	35. 15
19. 13	36. 35
20. 45	37. 20
21. 37	39. 0
21. 51	38. 10
22. 39	42. 40
22. 50	42. 30
23. 8	44. 0
23. 48	45. 30
23. 59	45. 30
Aug. 14	
0. 0	21. 45. 30
0. 39	45. 30
1. 37	42. 0
1. 52	43. 30
2. 18	43. 30
3. 59	37. 30
4. 48	32. 30
	***
6. 35	32. 15
6. 58	34. 0
	***
7. 29	32. 50
8. 15	34. 35
9. 31	32. 50
	***
11. 28	37. 30
11. 43	36. 30
12. 7	36. 10
12. 27	37. 20
13. 15	36. 50
	***
14. 0	37. 35
	***
14. 41	36. 30
14. 53	37. 0
	***
15. 27	35. 30
	***
17. 14	37. 30
	***
18. 22	35. 0
	***
19. 26	34. 30
	***
20. 39	37. 0
	***
21. 0	36. 40
	***
21. 22	37. 30
	***
21. 42	35. 50
	***
22. 15	35. 30
	***
22. 34	37. 10
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Aug. 14	
0. 0	·1078
2. 29	·1088
	***
3. 22	·1084
4. 15	·1071
	***
4. 40	·1079
	***
5. 7	·1074
	***
5. 41	·1078
6. 15	·1077
6. 31	·1080
6. 41	·1079
8. 50	·1085
11. 0	·1089
11. 42	·1090
12. 2	·1087
12. 36	·1091
14. 25	·1092
15. 7	·1096
19. 0	·1103
21. 9	·1100
22. 27	·1086
22. 50	·1089
23. 59	·1082

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Aug. 14	
0. 0	·01192
0. 48	·01230
1. 7	·01255
1. 51	·01243
	·00901
4. 20	·00839
7. 5	·00615
7. 54	·00579
8. 54	·00676
10. 6	·00860
11. 39	·01157
17. 19	·01217
22. 13	·01163
23. 4	·01146
23. 59	·01055

Göttingen Mean Solar Time.	Readings of Thermometers.	
	Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Aug. 14		
1. 40	70 ·2	71 ·2
3. 40	70 ·0	71 ·8
9. 40	69 ·2	70 ·0
21. 46	61 ·9	62 ·4

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 14								
h m	° ′ ″	h m		h m		h m	°	°
22. 39	21. 36. 20 ***							
22. 43	37. 20 ***							
22. 54	36. 0 ***							
23. 41	37. 50							
23. 47	39. 45							
23. 59	40. 10							
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
0. 0	21. 40. 10	0. 0	·1082	0. 0	·01045	1. 40	64 ·8	65 ·5
1. 13	38. 40	1. 34	·1076	0. 43	·00950	3. 40	67 ·0	68 ·0
1. 33	37. 40	1. 47	·1080	1. 30	·00897	9. 40	66 ·5	67 ·4
1. 43	39. 45 ***	2. 15	·1076	2. 53	·00603	22. 30	68 ·0	68 ·5
		2. 57	·1087	4. 21	·00240			
2. 38	38. 35	3. 14	·1082		·00275			
2. 49	39. 0	4. 10	·1086	6. 45	·00276			
3. 24	37. 10	4. 29	·1083	9. 40	·00220			
3. 45	37. 20	4. 46	·1086	10. 53	·00274			
4. 0	36. 5	5. 4	·1082	15. 56	·00763			
4. 14	37. 0 ***	6. 9	·1084	17. 8	·00840			
		6. 32	·1089	19. 0	·00872			
4. 30	36. 50	11. 47	·1095	20. 37	·00816			
4. 42	35. 30 ***	12. 4	·1098	21. 41	·00696			
		14. 15	·1096	22. 51	·00455			
5. 27	38. 20 ***	16. 30	·1109	23. 15	·00440			
		18. 38	·1107	23. 42	·00278			
6. 7	35. 0 ***	19. 45	·1102	23. 59	·00378			
		20. 22	·1104					
6. 42	34. 30 ***	21. 8	·1096					
		22. 30	·1073					
6. 59	35. 10 ***	22. 52	·1071 (†)					
7. 30	33. 40 ***							
9. 0	37. 0							
10. 0	35. 5							
10. 56	37. 30							
12. 36	38. 30							
12. 49	37. 50							
13. 15	38. 30							
14. 10	37. 20							
14. 28	38. 30							
14. 43	37. 45							
15. 12	38. 30							
15. 45	38. 20							
15. 54	37. 10							
16. 15	38. 30							
17. 58	36. 45							
19. 43	35. 55							
21. 40	37. 20							
22. 40	35. 25							
22. 52	37. 0							
23. 6	37. 25							
23. 22	35. 30							
23. 59	36. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 36. [illegible] ***	0. 28	·1056 ***	0. 0	·00380	8. 25	77 ·5	78 ·0
				0. 10	·00397	12. 40	72 ·0	73 ·3
3. 10	34. 10 ***	4. 37	·1054	3. 49	·00643	13. 40	71 ·0	72 ·4
		5. 7	·1046	5. 30	·00657	14. 40	69 ·5	71 ·6
5. 19	28. 0	5. 35	·1048	9. 39	·00614	15. 40	69 ·5	71 ·0
6. 41	28. 30	5. 45	·1047	12. 24	·01076	16. 40	68 ·9	70 ·0
7. 45	33. 35	6. 6	·1050	14. 5	·01368	17. 40	68 ·0	69 ·7
8. 28	32. 20	7. 15	·1050	18. 39	·01360	18. 40	67 ·0	69 ·0
9. 29	34. 30	10. 5	·1062 ***	23. 7	·01294 (†)	19. 40	67 ·0	68 ·5
9. 58	34. 0					20. 40	66 ·6	68 ·2
14. 41	37. 10	10. 45	·1064			21. 40	66 ·0	67 ·7
15. 21	35. 10	13. 6	·1084			22. 40	66 ·0	67 ·4
16. 19	36. 30	13. 26	·1082			23. 40	66 ·2	67 ·6
18. 22	33. 40	15. 19	·1093					
19. 9	31. 20	15. 36	·1086					
20. 36	29. 20	15. 52	·1084					
22. 21	32. 40	16. 24	·1089					
22. 50	34. 20 (†)	17. 30	·1086					
		21. 56	·1069					
		23. 0	·1071 (†)					
Aug. 17		Aug. 17		Aug. 17		Aug. 17		
0. 30	21. 38. 50 ***		(†)		(†)	0. 40	67 ·1	68 ·2
		1. 15	·1082	1. 12	·01023	1. 40	68 ·0	68 ·8
2. 36	37. 10	4. 9	·1079	2. 14	·00920	2. 40	69 ·0	70 ·0
2. 43	36. 20	4. 27	·1082 ***	4. 21	·00476	3. 40	70 ·0	70 ·4
2. 50	37. 5 ***	5. 0	·1077 ***	9. 7	·00397	4. 40	70 ·8	71 ·3
3. 36	34. 0 ***	7. 44	·1079 ***	10. 30	·00506	5. 40	71 ·3	71 ·9
4. 42	35. 15 ***	10. 15	·1087	14. 33	·01295	6. 40	71 ·5	72 ·0
5. 11	34. 0	10. 44	·1086		·01235	7. 40	71 ·8	72 ·4
5. 22	35. 0 ***	11. 26	·1094	19. 40	·01216	8. 40	69 ·8	71 ·0
		12. 5	·1088	23. 0	·01180	9. 40	69 ·2	71 ·0
6. 35	34. 0 ***	12. 27	·1091	23. 59	·01131	10. 40	68 ·8	70 ·0
		16. 24	·1096			11. 40	68 ·2	69 ·0
11. 0	35. 35	17. 0	·1095			21. 40	62 ·0	63 ·2
11. 13	36. 30 ***	18. 9	·1099					
		18. 41	·1095					
11. 40	33. 50 ***	20. 35	·1092					
		23. 7	·1079					
12. 36	35. 30 ***	23. 59	·1082					
16. 44	36. 0 ***							
17. 14	37. 0							
17. 45	35. 25 ***							
18. 9	35. 45							
18. 30	34. 30							
18. 45	35. 25							
19. 10	34. 30 ***							
21. 10	37. 40							
22. 4	34. 40							
22. 14	36. 40							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 17								
h m	° ′ ″	h m		h m		h m	°	°
22. 30	21. 35. 5							
22. 38	37. 15							
23. 0	35. 45							
	***							
23. 59	36. 30							
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 0	21. 36. 25	0. 0	·1082	0. 0	·01120	1. 40	66 ·0	66 ·7
0. 27	37. 30	1. 45	·1088	0. 57	·00988	3. 40	68 ·7	69 ·5
0. 30	39. 30		***	1. 49	·00833	9. 40	71 ·8	72 ·0
0. 42	38. 0	6. 3	·1086	3. 16	·00342	21. 40	66 ·8	67 ·6
1. 35	38. 40	6. 36	·1088		·00402			
2. 28	35. 50	6. 52	·1093	9. 21	·00481			
3. 16	33. 0	11. 30	·1093		·00576			
	***	11. 49	·1095	12. 27	·00564			
3. 41	34. 50	11. 58	·1101	13. 51	·00615			
	***	12. 23	·1099	16. 0	·00782			
4. 48	31. 0	12. 33	·1088	20. 56	·01316			
	***	12. 52	·1085	23. 59	·01335			
6. 6	30. 50	13. 40	·1092					
6. 45	34. 20	16. 0	·1087					
	***	17. 0	·1093					
8. 28	35. 10	18. 34	·1091					
8. 57	33. 35	22. 9	·1075					
	***	23. 59	·1079					
10. 57	33. 50							
11. 45	35. 0							
	***							
12. 30	31. 25							
	***							
15. 31	34. 35							
	***							
15. 58	36. 45							
	***							
19. 30	32. 50							
	***							
20. 41	34. 10							
21. 56	33. 20							
	***							
23. 59	38. 5							
Aug. 19		Aug. 19		Aug. 19		Aug. 19		
0. 0	21. 38. 5	0. 0	·1079	0. 0	·01310	1. 40	68 ·0	69 ·0
1. 1	37. 10	1. 15	·1080	1. 6	·01278	3. 40	71 ·0	71 ·5
1. 15	38. 40	1. 32	·1083	2. 19	·01189	9. 40	72 ·8	74 ·2
	***	2. 16	·1079	3. 30	·01010	21. 40	68 ·8	70 ·2
2. 41	35. 0	2. 37	·1082	5. 11	·00577			
2. 52	33. 40	4. 45	·1080		·00616			
3. 4	34. 0	6. 10	·1076	9. 24	·00574			
3. 54	30. 0	7. 24	·1084	11. 20	·00556			
	***	9. 46	·1085	15. 39	·00772			
6. 0	27. 5	12. 9	·1087	17. 55	·01104			
7. 0	29. 0	15. 11	·1091	22. 0	·01215			
	***	15. 29	·1093	23. 59	·01240			
9. 22	33. 50	19. 25	·1094					
9. 47	33. 0	21. 54	·1082					
	***	23. 10	·1084					
16. 21	37. 30	23. 59	·1092					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 19								
h m	° ′ ″	h m		h m		h m	°	°
19. 16	21. 35. 0							
20. 7	36. 30							
20. 43	35. 30							
22. 27	37. 35							
23. 59	43. 40							
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
0. 0	21. 43. 40	0. 0	·1092	0. 0	·01240	1. 40	69 ·8	70 ·6
0. 40	43. 5	2. 37	·1086	1. 33	·01249	3. 40	71 ·0	71 ·8
0. 55	44. 30	2. 41	·1073	3. 21	·01172	9. 40	70 ·6	72 ·0
1. 30	42. 10	3. 30	·1082	7. 6	·00759	21. 40	65 ·4	66 ·2
1. 45	43. 10	4. 4	·1076	8. 45	·00715			
	***	4. 17	·1082	10. 34	·00779			
3. 9	38. 40	4. 30	·1076	15. 37	·01380			
4. 37	33. 10	4. 37	·1088		·01328			
4. 41	34. 10	5. 15	·1084	22. 15	·01303			
4. 59	33. 0	5. 27	·1093	23. 59	·01242			
	***	5. 45	·1091					
5. 52	31. 40	6. 52	·1096					
	***	7. 6	·1081					
7. 26	32. 20	7. 32	·1092					
	***	8. 45	·1096					
8. 10	34. 45	9. 53	·1089					
8. 27	34. 30	10. 13	·1100					
10. 17	37. 0	11. 5	·1093					
10. 42	34. 30	12. 9	·1094					
11. 11	34. 0	12. 41	·1092					
12. 0	36. 25	16. 38	·1096					
12. 51	32. 30	19. 9	·1092					
13. 14	33. 50		***					
	***	23. 5	·1076					
16. 43	32. 30		***					
	***	23. 59	·1082					
17. 50	33. 0							
	***							
18. 35	32. 0							
19. 4	34. 0							
19. 37	33. 40							
20. 52	35. 30							
	***							
22. 25	32. 30							
23. 45	35. 0							
23. 52	37. 40							
23. 59	37. 0							
Aug. 21		Aug. 21		Aug. 21		Aug. 21		
0. 0	21. 37. 0	0. 0	·1082	0. 0	·01235	1. 40	68 ·8	69 ·4
0. 16	36. 30	3. 45	·1083	1. 0	·01120	3. 40	71 ·8	72 ·8
0. 25	38. 30	4. 0	·1080	1. 23	·01113	9. 40	72 ·7	73 ·0
	***	4. 27	·1087	3. 8	·00620	21. 40	68 ·0	69 ·0
2. 42	34. 20	4. 39	·1080	9. 53	·00569			
	***	6. 32	·1086	11. 19	·00644			
2. 58	36. 30	7. 10	·1083	16. 21	·01185			
	***	12. 43	·1090	18. 34	·01383			
4. 39	32. 0	13. 24	·1102		·01341			
4. 45	33. 15	14. 26	·1090	21. 30	·01335			
5. 7	32. 0	14. 46	·1093	22. 51	·01283			
	***	15. 31	·1091	23. 59	·01139			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 21		Aug. 21						
h m	° ′ ″	h m		h m		h m	°	°
5. 54	21. 32. 20	16. 0	·1096					
	***	17. 23	·1094					
6. 32	33. 35	18. 3	·1104					
	***	18. 38	·1105					
6. 51	34. 40	19. 35	·1108					
7. 40	35. 55	20. 30	·1101					
	***	22. 45	·1076					
8. 16	34. 30	23. 9	·1075					
9. 42	35. 0	23. 59	·1072					
9. 45	33. 30							
10. 11	35. 20							
	***							
12. 15	35. 30							
	***							
12. 41	33. 30							
	***							
13. 16	36. 30							
14. 22	32. 0							
14. 42	33. 5							
15. 11	32. 0							
15. 42	33. 15							
16. 12	32. 30							
16. 55	33. 40							
17. 26	34. 55							
	***							
18. 17	34. 0							
	***							
19. 15	36. 10							
19. 36	35. 0							
	***							
20. 21	36. 30							
	***							
21. 32	41. 40							
22. 10	42. 0							
22. 16	40. 0							
22. 45	38. 0							
	***							
23. 59	41. 5							
Aug. 22		Aug. 22		Aug. 22		Aug. 22		
0. 0	21. 41. 5	0. 0	·1072	0. 0	·01125	1. 40	73 ·9	73 ·7
	***	1. 25	·1070	0. 30	·01035	3. 40	76 ·1	76 ·6
0. 49	41. 30	1. 39	·1072	1. 0	·00965	9. 40	77 ·2	78 ·0
0. 54	45. 35		***	2. 17	·00664	22. 55	72 ·9	73 ·5
1. 46	42. 40	2. 17	·1068		·00720			
	***		***	3. 0	·00780			
2. 27	38. 30	4. 0	·1067	9. 54	·00764			
2. 52	38. 30		***		·00806			
3. 0	37. 30	4. 43	·1067	7. 30	·00724			
3. 7	38. 35		***		·00742			
3. 15	36. 30	4. 57	·1072	9. 0	·00716			
3. 44	36. 0	5. 10	·1068	10. 21	·00734			
3. 51	34. 0	5. 52	·1071	11. 38	·00781			
	***	6. 7	·1068	16. 30	·01474			
5. 41	29. 20	10. 0	·1079	22. 0	·01415			
6. 43	29. 0	10. 30	·1077	23. 16	·01332			
8. 28	35. 0	10. 58	·1096	23. 59	·01240			
9. 4	34. 20	11. 6	·1093					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 22		Aug. 22						
h m	° ′ ″	h m		h m		h m	°	°
9. 29	21. 34. 45	11. 17	·1080					
10. 15	30. 5	12. 0	·1072					
10. 57	35. 30	13. 23	·1079					
11. 12	31. 50	13. 45	·1077					
11. 37	30. 10	14. 13	·1080					
13. 15	36. 5	14. 48	·1080					
14. 41	35. 30	15. 52	·1085					
15. 29	36. 30	16. 7	·1083					
16. 48	34. 35	16. 19	·1084					
17. 11	35. 30	16. 51	·1083					
18. 7	33. 55	17. 55	·1089					
19. 42	38. 20	18. 28	·1081					
19. 51	38 0	19. 22	·1089					
20. 22	39. 30	20. 45	·1083					
20. 36	38. 50	22. 13	·1067					
20. 55	39. 0	22. 52	·1070					
21. 21	36. 40	23. 59	·1071					
22. 10	34. 45							
23. 13	38. 30							
23. 27	37. 30							
23. 31	38. 55							
23. 54	38. 30							
Aug. 23		Aug. 23		Aug. 23		Aug. 23		
0. 0	21. 38. 30	0. 0	·1071	0. 0	·01236	8. 40	81 ·0	81 ·3
	***	0. 37	·1075	0. 49	·01060	12. 40	77 ·9	78 ·3
0. 49	38. 40	1. 2	·1075	1. 53	·00684	13. 40	76 ·7	77 ·2
1. 19	38. 10	1. 15	·1076		·00724	14. 40	76 ·9	77 ·6
1. 51	38. 35	1. 34	·1072	3. 39	·00820	15. 40	76 ·7	77 ·3
	***	2. 12	·1066	4. 53	·00817	16. 40	76 ·2	76 ·7
2. 12	37. 30	2. 26	·1070		·00860	17. 40	75 ·7	76 ·1
	***	3. 39	·1069	6. 26	·00784	18. 40	74 ·8	75 ·4
2. 29	38. 20	3. 13	·1052		·00810	19. 40	74 ·0	74 ·8
	***	4. 36	·1049	7. 35	·00794	20. 40	74 ·0	74 ·2
4. 0	34. 30	6. 54	·1068	9. 49	·00863	21. 40	74 ·1	74 ·3
4. 27	35. 0	7. 20	·1050	12. 52	·01155	22. 40	74 ·7	75 ·0
	***	8. 2	·1067	15. 7	·01516	23. 40	76 ·3	76 ·2
5. 20	31. 50	8. 10	·1063	19. 53	·01473			
	***	8. 27	·1065		·01295			
6. 37	32. 50	8. 39	·1063	21. 5	·01406			
7. 40	31. 55	9. 8	·1066	22. 36	·01396			
8. 22	34. 5	9. 32	·1063	23. 59	·01202			
8. 56	31. 20	10. 4	·1068					
9. 27	33. 25	10. 10	·1074					
9. 51	32. 40	10. 35	·1068					
10. 10	29. 25	12. 22	·1072					
10. 28	32. 0	12. 48	·1081					
11. 3	29. 30	13. 10	·1077					
	***	13. 32	·1082					
13. 11	32. 30	13. 43	·1080					
13. 51	29. 10	15. 3	·1078					
	***	15. 24	·1078					
14. 40	32. 50	15. 50	·1080					
	***	17. 25	·1081					
16. 2	31. 15	23. 59	·1056					
16. 30	32. 0							
16. 41	31. 30							
17. 9	32. 40							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 23								
h m	° ′ ″	h m		h m		h m		
17. 35	21. 31. 10							
19. 11	32. 50							
19. 28	31. 30							
19. 57	34. 0							
	***							
20. 42	33. 30							
21. 12	34. 20							
22. 0	32. 5							
23. 11	33. 30							
23. 59	36. 15							
Aug. 24		Aug. 24		Aug. 24		Aug. 24		
0. 0	21. 36. 15	0. 0	·1056	0. 0	·01200	0. 40	77 ·9	77 ·8
1. 19	36. 30	2. 15	·1054	0. 43	·01060	1. 40	79 ·0	78 ·7
1. 47	37. 50	2. 38	·1057	1. 26	·00918	2. 40	80 ·4	80 ·3
2. 54	32. 25	3. 3	·1053	2. 16	·00735	3. 40	81 ·1	81 ·2
3. 3	34. 50	3. 23	·1058	3. 45	·00861	4. 40	81 ·8	82 ·0
3. 47	33. 30	3. 26	·1054	5. 21	·00836	5. 40	82 ·0	82 ·5
4. 15	31. 35		***	5. 27	·00884	6. 40	82 ·3	82 ·5
4. 57	30. 30	5. 0	·1058	6. 0	·00858	7. 40	81 ·3	81 ·7
5. 11	31. 30	5. 27	·1052	7. 45	·00853	8. 40	80 ·7	81 ·2
5. 41	30. 40	9. 10	·1072	9. 4	·00927	9. 40	79 ·5	80 ·3
6. 0	31. 0	9. 43	·1074	10. 10	·01057	10. 40	78 ·5	80 ·0
7. 15	33. 30	11. 0	·1081	12. 30	·01498	11. 40	77 ·4	78 ·0
	***	11. 39	·1074	17. 19	·01458	21. 40	71 ·0	71 ·5
8. 11	32. 35	12. 9	·1074	22. 30	·01386			
8. 36	33. 40	12. 30	·1072	23. 59	·01271			
	***	20. 15	·1079					
10. 8	32. 40	23. 10	·1062					
	***	23. 59	·1064					
10. 58	33. 30							
	***							
11. 33	32. 0							
11. 57	33. 15							
12. 16	32. 30							
12. 34	33. 50							
	***							
15. 57	34. 0							
16. 28	35. 0							
17. 1	34. 0							
	***							
17. 26	34. 35							
	***							
17. 45	33. 30							
	***							
18. 0	34. 35							
	***							
19. 3	33. 30							
	***							
19. 43	34. 20							
	***							
21. 28	32. 30							
21. 41	33. 30							
	***							
22. 30	31. 35							
	***							
23. 59	34. 10							

Göttingen Mean Solar Time.	Western Declination	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 25		Aug. 25		Aug. 25		Aug. 2		
h m	° ′	h m		h m		h m	°	°
0. 0	21. 34. 10	0. 0	·1064	0. 0	·0123[illegible]	1. 40	·6	·5
	***	4. 0	·1076	1. 10	·01133	3. 40	·7	·7
0. 31	34. 30	4. 7	·1071	3. 38	·00617	9. 40	·4	·76 ·0
1. 21	38. 15	4. 26	·1075		·00665	21. 40	·64 ·7	·66 ·4
1. 27	37. 35		***	7. 53	·00602			
1. 45	39. 50	8. 0	·1081	8. 49	·00657			
	***		***	10. 23	·00895			
2. 12	39. 0	11. 25	·1098	13. 0	·01366			
2. 41	35. 0		***	17. 39	·01331			
	***	11. 57	·1105		·01220			
4. 40	30. 5	12. 30	·1102	18. 10	·01341			
4. 52	33. 0	13. 19	·1104		·01294			
5. 1	32. 30	13. 26	·1142		***			
5. 27	34. 10	15. 5	·1135	22. 0	·01279			
5. 44	33. 0	17. 14	·1134	22. 53	·01287			
5. 59	33. 20	20. 30	·1131	23. 59	·01236			
6. 21	31. 30	23. 13	·1116					
6. 45	32. 0	23. 59	·1121					
7. 9	30. 30							
7. 45	33. 40							
7. 52	32. 30							
	***							
10. 29	32. 35							
	***							
11. 30	34. 0							
11. 52	32. 20							
	***							
14. 0	33. 25							
	***							
16. 11	37. 30							
	***							
17. 27	35. 20							
	***							
17. 52	36. 30							
	***							
18. 16	35. 20							
	***							
19. 35	36. 30							
19. 45	35. 30							
20. 8	36. 30							
20. 20	36. 0							
20. 43	36. 55							
21. 37	35. 25							
22. 11	37. 0							
22. 52	34. 20							
22. 57	35. 30							
23. 59	36. 40							
Aug. 26		Aug. 26		Aug. 26		Aug. 26		
0. 0	21. 36. 40	0. 0	·1121	0. 0	·01230	1. 40	68 ·0	69 ·6
	***	0. 39	·1130	0. 40	·01172	3. 40	72 ·[illegible]	72 ·4
1. 13	40. 30	1. 6	·1130	1. 15	·01084	9. 40	72 ·6	73 ·5
1. 24	39. 30	3. 19	·1071	3. 5	·00694	21. 40	64 ·0	66 ·0
1. 43	40. 20	3. 39	·1064	3. 39	·00536			
	***	4. 20	·1064		·00696			
3. 53	33. 30	4. 31	·1068	4. 26	·00589			
	***	5. 0	·1061		***			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet
Aug. 26		Aug. 26		Aug. 26				
h m	° ′ ″	h m		h m		h m	°	°
4. 30	21. 33. 20	5. 16	·1061	9. 6	·00529			
4. 44	34. 40	5. 48	·1066	10. 19	·00554			
4. 57	32. 40	6. 45	·1068	16. 9	·01340			
5. 10	33. 30	7. 2	·1071		·01282			
5. 28	31. 30	8. 14	·1074		***			
5. 56	34. 0	8. 32	·1073	21. 30	·01254			
6. 14	32. 20	9. 36	·1081	22. 37	·01263			
6. 25	34. 30	9. 53	·1080	23. 59	·01152			
6. 43	35. 20	10. 12	·1084					
7. 16	33. 30	10. 17	·1081					
8. 44	33. 20	10. 41	·1083					
8. 58	31. 30	11. 10	·1081					
9. 15	33. 25	11. 26	·1085					
10. 38	32. 15	11. 34	·1082					
12. 11	34. 0	12. 0	·1084					
13. 51	29. 25	12. 20	·1090					
14.	30. 5	12. 30	·1089					
14. 41	27. 30	12. 47	·1093					
15. 0	30. 5	13. 9	·1091					
15. 44	28. 30	13. 31	·1095					
16. 30	33. 40	13. 58	·1090					
17. 17	30. 5	14. 15	·1096					
17. 42	31. 40	14. 36	·1096					
18. 42	32. 35	14. 52	·1091					
19. 3	31. 30	15. 41	·1096					
19. 29	31. 35	15. 57	·1094					
19. 52	32. 40	16. 13	·1088					
21. 40	33. 40	16. 31	·1085					
23. 42	37. 20	17. 0	·1097					
23. 59	37. 30	17. 10	·1100					
		17. 33	·1096					
		19. 30	·1093					
		22. 25	·1071					
		22. 41	·1067					
		23. 59	·1071					
Aug. 27		Aug. 27		Aug. 27		Aug. 27		
0. 0	21. 37. 30	0. 0	·1071	1. 24	·00836	1. 40	69 ·6	70 ·4
1. 19	38. 0	1. 35	·1077	2. 31	·00465	3. 40	71 ·0	73 ·6
1. 28	37. 30		***		·00541	9. 40	72 ·8	74 ·1
	***	4. 30	·1073	5. 0	·00596	21. 40	62 ·0	64 ·0
2. 0	37. 20		***		***			
2. 28	37. 35	4. 52	·1075	6. 36	·00595			
2. 45	36. 10	5. 18	·1069	7. 6	·00567			
2. 52	37. 10	5. 30	·1074		·00582			
3. 0	36. 0	7. 39	·1072	8. 15	·00525			
	***	11. 45	·1079	9. 25	·00543			
5. 15	31. 0	12. 57	·1087	10. 36	·00620			
5. 43	32. 0	13. 11	·1092	11. 20	·00716			
6. 0	29. 20	13. 49	·1079	14. 23	·01377			
6. 7	30. 30	15. 10	·1097		·01321			
6. 15	29. 10	16. 0	·1093	16. 45	·01316			
6. 42	28. 0	18. 54	·1100		***			
6. 49	29. 30	20. 23	·1099	21. 53	·01204			
6. 55	29. 0	22. 30	·1079	22. 42	·01225			
7. 10	29. 30	22. 49	·1081	23. 59	·01200			
7. 36	29. 10	23. 59	·1080					
8. 3	32. 5							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet
Aug. 27								
h m	° ′ ″	h m		h m		h m	°	°
8. 23	21. 31. 30							
8. 56	33. 15							
9. 15	31. 15							
9. 22	32. 20							
10. 0	32. 20							
10. 30	33. 40							
10. 51	32. 45							
11. 26	34. 50							
12. 4	33. 40							
13. 4	35. 20							
13. 30	33. 0							
14. 13	34. 30							
14. 30	32. 50							
15. 45	32. 40							
16. 30	34. 0							
16. 44	33. 15							
	***							
18. 51	31. 0							
	***							
19. 37	31. 0							
	***							
20. 11	32. 40							
20. 26	32. 30							
20. 36	33. 30							
	***							
21. 11	32. 10							
21. 17	33. 0							
21. 52	31. 10							
23. 21	35. 5							
23. 37	36. 10							
23. 45	37. 30							
23. 59	37. 0							
Aug. 28		Aug. 28		Aug. 28		Aug. 28		
0. 0	21. 37. 5	0. 0	·1080	0. 0	·01190	1. 40	66 ·7	67 ·3
0. 53	39. 45		***	0. 45	·01122	3. 40	68 ·7	69 ·3
1. 12	42. 25	5. 47	·1083	1. 30	·01004	9. 40	68 ·0	69 ·6
2. 59	38. 30		***	4. 32	·00366	21. 40	63 ·0	65 ·0
3. 36	38. 20	7. 28	·1091		·00432			
3. 49	38. 40	8. 15	·1086	10. 0	·00460			
4. 22	36. 35	10. 8	·1093	11. 39	·00433			
4. 59	37. 5	12. 5	·1093	14. 0	·00621			
6. 35	35. 30	13. 4	·1096	18. 59	·01282			
6. 56	36. 30	13. 16	·1102		·01204			
7. 45	34. 20	15. 48	·1097	23. 10	·01218			
8. 21	35. 30	18. 39	·1108	23. 59	·01200			
8. 37	37. 0	22. 15	·1091					
9. 14	37. 30	23. 19	·1083					
9. 52	36. 30	23. 59	·1082					
10. 30	37. 0							
10. 44	38. 5							
12. 13	37. 50							
12. 24	38. 30							
12. 43	38. 0							
13. 0	38. 40							
14. 45	36. 30							
15. 32	38. 30							
17. 24	36. 50							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
Aug. 28	
h m	° ′ ″
17. 51	21. 37. 25
18. 12	36. 40
19. 15	37. 0
19. 29	37. 50
19. 41	37. 40
20. 10	38. 35
20. 17	38. 20
23. 41	42. 20
23. 59	43. 15
Aug. 29	
0. 0	21. 43. 20
3. 10	42. 30
3. 40	41. 10
4. 37	39. 30
6. 12	38. 20
6. 59	39. 0
7. 13	38. 30
7. 37	39. 0
8. 12	41. 0
8. 30	40. 5
10. 9	40. 0
10. 43	32. 30
11. 22	36. 30
11. 52	36. 25
12. 30	39. 0
12. 44	38. 0
13. 21	39. 0
13. 33	38. 40
13. 50	39. 45
14. 23	38. 40
14. 54	42. 30
15. 31	31. 0
16. 17	36. 30
17. 0	38. 40
17. 13	38. 10
17. 49	38. 40
18. 13	37. 20
18. 39	38. 0
19. 13	37. 50
19. 38	39. 30
19. 53	38. 35
21. 22	38. 30
21. 52	29. 40
22. 53	39. 30
23. 59	40. 25
Aug. 30	
0. 0	21. 40. 25
0. 43	41. 30
1. 2	39. 40
	***
2. 39	38. 10
	***
3. 30	35. 50
	***
5. 0	33. 20
5. 27	34. 50
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 29	
h m	
0. 0	·1082
1. 45	·1088
4. 7	·1088
4. 23	·1093
5. 45	·1089
7. 26	·1098
7. 34	·1106
7. 49	·1104
8. 12	·1092
8. 31	·1099
10. 19	·1099
10. 45	·1111
10. 57	·1104
11. 45	·1100
12. 10	·1103
12. 36	·1108
12. 46	·1106
14. 0	·1112
14. 21	·1108
14. 52	·1132
15. 1	·1131
15. 20	·1114
15. 38	·1112
16. 10	·1112
16. 23	·1109
18. 24	·1114
18. 53	·1109
20. 30	·1106
21. 30	·1093
21. 54	·1082
22. 55	·1073
23. 59	·1062
Aug. 30	
0. 0	·1062
0. 15	·1058
0. 34	·1064
1. 8	·1062
1. 22	·1072
1. 45	·1066
4. 10	·1066
4. 56	·1059
5. 20	·1065
5. 27	·1068

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Aug. 29	
h m	
0. 0	·01200
1. 0	·01114
6. 38	·00382
	·00478
9. 12	·00415
10. 34	·00430
14. 38	·00725
15. 15	·00716
16. 9	·00780
19. 45	·00929
20. 54	·00936
21. 57	·00892
	·00844
23. 0	·00760
23. 59	·00640
Aug. 30	
0. 0	·00635
0. 51	·00460
	·00549
3. 30	·00662
8. 53	·00619
10. 5	·00685
11. 15	·00724
14. 7	·01395
	·01380
	***

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 29		
h m	°	°
1. 40	66 ·0	67 ·0
3. 40	67 ·0	68 ·2
9. 40	68 ·0	69 ·2
22. 34	68 ·2	68 ·6
Aug. 30		
7. 46	75 ·6	76 ·2
12. 40	69 ·5	71 ·6
13. 40	68 ·3	70 ·7
14. 40	67 ·2	69 ·6
15. 40	66 ·2	68 ·5
16. 40	65 ·5	68 ·2
17. 40	64 ·9	67 ·5
18. 40	64 ·2	66 ·8
19. 40	63 ·5	66 ·3
20. 40	63 ·3	66 ·0

Göttingen Mean Solar Time.	Western Declination.
Aug. 30	
h m	° ′ ″
6. 14	21. 33. 45
	***
7. 4	35. 0
	***
7. 25	34. 10
8. 36	34. 30
8. 52	36. 30
9. 7	34. 30
9. 20	33. 30
9. 30	36. 10
9. 44	36. 0
10. 2	36. 45
10. 13	39. 35
10. 44	40. 20
11. 17	34. 0
12. 14	37. 40
12. 55	37. 20
13. 21	35. 30
14. 41	38. 40
15. 24	36. 20
17. 18	36. 20
17. 30	37. 0
18. 42	35. 30
20. 13	36. 20
20. 30	35. 30
21. 0	36. 20
21. 11	35. 50
22. 39	37. 0
22. 54	39. 30
23. 8	38. 30
	(†)
Aug. 31	
	(†)
1. 15	21. 42. 0
1. 40	41. 20
2. 25	36. 35
3. 2	35. 30
3. 19	37. 0
4. 15	34. 50
4. 46	35. 0
5. 13	34. 0
5. 41	33. 55
	***
7. 4	35. 0
	***
7. 51	34. 30
8. 31	36. 0
9. 15	35. 30
9. 34	33. 40
10. 12	35. 55
10. 45	32. 50
11. 21	37. 0
11. 41	36. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 30	
h m	
5. 37	·1059
6. 0	·1073
6. 16	·1072
6. 31	·1077
6. 39	·1069
8. 5	·1068
8. 16	·1075
8. 32	·1076
8. 40	·1067
9. 2	·1066
9. 24	·1085
9. 32	·1078
9. 58	·1079
10. 24	·1107
10. 33	·1108
10. 54	·1093
11. 46	·1078
12. 11	·1077
12. 32	·1077
12. 44	·1083
12. 55	·1079
13. 19	·1082
13. 56	·1081
14. 39	·1084
15. 26	·1092
17. 10	·1092
17. 24	·1096
18. 30	·1093
19. 39	·1098
20. 23	·1095
20. 48	·1095
21. 34	·1088
22. 7	·1076
22. 40	·1069
	(†)
Aug. 31	
	(†)
1. 30	·1069
2. 0	·1059
2. 19	·1061
3. 18	·1054
4. 0	·1073
4. 7	·1070
5. 43	·1070
5. 58	·1075
6. 1	·1076
6. 30	·1068
7. 10	·1074
7. 34	·1070
8. 13	·1072
8. 55	·1076
10. 16	·1070
10. 42	·1075
11. 0	·1081
11. 32	·1077
12. 7	·1086
12. 47	·1091

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Aug. 30	
h m	
21. 24	·01278
23. 59	·01168
Aug. 31	
0. 0	·01158
1. 0	·00922
1. 44	·00748
2. 21	·00602
3. 32	·00620
	·01034
4. 39	·00758
6. 0	·00655
8. 19	·00615
10. 6	·00714
12. 0	·00948
14. 15	·01370
14. 39	·01341
	***
22. 39	·01284
23. 59	·01155

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 30		
h m	°	°
21. 40	64 ·0	66 ·4
22. 40	65 ·0	66 ·7
23. 40	66 ·8	68 ·2
Aug. 31		
0. 40	68 ·9	70 ·1
1. 40	70 ·8	71 ·6
2. 40	72 ·2	73 ·2
3. 40	73 ·8	74 ·7
4. 40	74 ·0	75 ·0
5. 40	74 ·2	75 ·0
6. 40	74 ·2	75 ·0
7. 40	74 ·5	75 ·4
8. 40	73 ·8	74 ·8
9. 40	73 ·2	74 ·0
10. 40	72 ·1	73 ·0
11. 40	71 ·6	72 ·4
21. 40	67 ·0	67 ·7

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Aug. 31	
h m	° ′ ″
13. 0	21. 39. 0
13. 52	38. 40
14. 0	39. 45
14. 15	38. 30
15. 55	39. 40
18. 49	36. 30
20. 0	39. 0
20. 40	39. 0
21. 27	41. 10
22. 7	41. 20
22. 25	42. 10
23. 0	42. 20
23. 59	45. 10
Sept. 1	
0. 0	21. 45. 10
0. 56	45. 20
1. 10	38. 30
1. 52	36. 20
2. 10	37. 0
2. 51	32. 50
3. 13	34. 0
3. 32	31. 0
3. 40	31. 30
3. 45	30. 50
3. 52	32. 0
4. 9	32. 0
4. 16	30. 30
4. 30	32. 30
4. 48	30. 0
4. 59	31. 50
5. 13	29. 10
5. 58	27. 0
6. 14	26. 45
7. 0	32. 30
	***
7. 45	34. 30
7. 52	33. 0
8. 0	34. 45
	***
8. 49	34. 30
	***
9. 14	32. 35
9. 41	27. 30
10. 52	32. 30
11. 7	31. 40
11. 17	34. 40
12. 0	29. 15
12. 30	31. 30
	***
12. 46	31. 15
	***
13. 13	32. 10
13. 38	31. 30
14. 28	36. 30
	***
15. 13	35. 50
15. 42	40. 45

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 31	
h m	
16. 14	·1099
16. 45	·1104
18. 0	·1106
20. 43	·1099
21. 9	·1093
21. 45	·1091
22. 24	·1097
22. 31	·1096
22. 43	·1094
23. 7	·1101
23. 59	·1102
Sept. 1	
0. 0	·1102
1. 55	·1092
3. 19	·1074
3. 26	·1076
4. 29	·1072
4. 38	·1078
5. 14	·1065
5. 28	·1070
7. 10	·1076
7. 31	·1074
7. 40	·1082
7. 51	·1078
8. 18	·1081
8. 20	·1077
9. 30	·1079
9. 40	·1086
10. 39	·1080
10. 52	·1082
11. 10	·1110
11. 35	·1092
12. 7	·1100
12. 19	·1100
12. 32	·1092
12. 51	·1092
13. 22	·1085
13. 57	·1089
14. 24	·1084
15. 15	·1096
15. 53	·1082
16. 20	·1094
22. 0	·1085
23. 59	·1093

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Sept. 1	
0. 0	·01150
0. 55	·01088
	(†)
2. 46	·00540
4. 39	·00579
6. 30	·00561
7. 35	·00520
9. 11	·00535
11. 3	·00637
11. 30	·00635
14. 51	·01115
15. 20	·01077
16. 30	·01054
20. 0	·01062
21. 37	·01019
	·00920
23. 59	·00927

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Sept. 1		
1. 40	69 ·0	70 ·0
3. 40	70 ·2	71 ·4
9. 40	69 ·7	71 ·0
21. 40	63 ·3	65 ·4

Göttingen Mean Solar Time.	Western Declination.
Sept. 1	
h m	° ′ ″
16. 44	21. 33. 30
17. 15	32. 20
18. 18	32. 30
18. 49	33. 0
19. 0	32. 30
19. 23	33. 25
19. 40	32. 50
20. 15	33. 45
21. 0	32. 30
21. 12	33. 30
21. 37	32. 10
22. 36	38. 50
23. 37	42. 15
23. 59	40. 30
Sept. 2	
0. 0	21. 40. 30
0. 22	38. 50
1. 0	38. 10
1. 24	37. 35
1. 39	38. 0
1. 42	39. 45
3. 30	33. 30
	***
5. 17	30. 30
	***
6. 45	34. 30
7. 38	34. 30
8. 0	33. 15
8. 15	34. 30
	***
10. 30	32. 55
	***
13. 39	36. 0
13. 51	35. 0
	***
15. 37	34. 45
16. 24	36. 0
	***
17. 45	33. 0
	***
19. 18	32. 0
	***
20. 54	32. 50
21. 27	34. 30
21. 37	33. 30
22. 57	36. 30
23. 59	40. 30
Sept. 3	
0. 0	21. 40. 30
0. 38	42. 20
1. 0	40. 50
1. 24	42. 15
1. 43	44. 0
	***
5. 0	34. 25
6. 27	34. 15

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Sept. 2	
0. 0	·1093
1. 37	·1105
4. 47	·1084
5. 34	·1081
5. 37	·1096
6. 9	·1096
6. 35	·1101
9. 42	·1103
10. 15	·1110
10. 39	·1106
11. 37	·1110
12. 13	·1109
14. 30	·1116
14. 56	·1114
15. 23	·1116
15. 39	·1114
16. 15	·1118
16. 20	·1115
16. 52	·1115
19. 11	·1118
20. 56	·1114
22. 20	·1108
23. 27	·1113
Sept. 3	
0. 0	·1105
1. 15	·1108
1. 24	·1107
1. 36	·1112
2. 45	·1100
3. 24	·1100
3. 38	·1105
4. 22	·1103

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Sept. 2	
0. 0	·00920
0. 48	·00958
1. 49	·00954
	·00888
2. 55	·00974
	·00954
5. 10	·00860
6. 19	·00829
7. 35	·00836
8. 23	·00894
9. 26:	·00995
14. 46	·00999
15. 35:	·00960
23. 59	·00918
Sept. 3	
0. 0	·00910
2. 0	·00896
3. 18	·00822
4. 0	·00738
6. 48	·00342
8. 35	·00144
	·00177
11. 0	·00158

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Sept. 2		
1. 40	64 ·0	63 ·0
3. 40	64 ·6	63 ·8
9. 40	63 ·4	64 ·4
21. 40	59 ·2	60 ·0
Sept. 3		
1. 40	60 ·5	61 ·0
3. 40	62 ·4	62 ·6
9. 40	62 ·0	63 ·0
21. 40	61 ·0	62 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 3		Sept. 3		Sept. 3				
h m	° ′ ″	h m		h m		h m	°	°
7. 5	21. 23. 0	4. 40	·1095	11. 26	—·00021			
7. 13	24. 30	5. 16	·1098	12. 23	—·00018			
7. 22	24. 30	5. 38	·1108	12. 32	—·00019			
7. 53	30. 0	5. 54	·1103	12. 52	·00000			
8. 6	29. 20	6. 7	·1106	13. 0	—·00014			
8. 23	33. 50	6. 36	·1096	13. 28	—·00037			
9. 0	33. 30	6. 47	·1097	13. 45	—·00075			
9. 26	32. 20	7. 8	·1116	14. 13	—·00077			
10. 53	29. 50	7. 16	·1111	14. 44	—·00296			
11. 8	50. 50	7. 30	·1120	15. 10	—·00080			
11. 29	29. 10	7. 45	·1101	15. 28	—·00049			
11. 44	26. 55	8. 0	·1101	15. 36	—·00103			
11. 59	28. 30	8. 9	·1103	16. 0	—·00041			
12. 12	28. 0	8. 23	·1095	16. 16	—·00057			
12. 35	12. 30	8. 44	·1114	16. 24	—·00044			
12. 51	19. 40		***	16. 33	—·00094			
13. 44	7. 50	9. 0	·1113	16. 39	—·00084			
13. 52	11. 40	9. 21	·1104	16. 53	—·00132			
14. 8	9. 10	9. 41	·1097	17. 17	—·00005			
14. 16	22. 30	10. 0	·1116	17. 23	·00000			
14. 29	21. 30	10. 5	·1106	17. 29	·00036			
14. 43	27. 0	10. 11	·1111	17. 33	·00030			
14. 59	33. 45	10. 21	·1094	18. 7	·00117			
15. 48	15. 45	10. 25	·1098	18. 30	·00109			
16. 13	27. 0	10. 31	·1092	19. 3	·00244			
16. 24	25. 30	10. 49	·1050	19. 14	·00240			
16. 30	32. 20	11. 18	·1073	19. 46	·00303			
16. 45	23. 40	11. 42	·1100	19. 55	·00308			
16. 57	27. 30	11. 46	·1089	20. 10	·00320			
17. 9	29. 20	12. 0	·1080	20. 19	·00375			
17. 15	27. 0	12. 5	·1079	21. 8	·00449			
17. 24	29. 30	12. 13	·1088	22. 10	·00617			
17. 28	26. 50	12. 27	·1070	23. 0	·00657			
17. 36	30. 0	12. 32	·1077	23. 59	·00654			
17. 40	27. 30	12. 36	·1075					
18. 10	41. 30	12. 45	·1080					
18. 29	32. 20	12. 52	·1082					
18. 34	35. 10	12. 56	·1090					
18. 41	34. 5	13. 10	·1114					
18. 45	42. 30	13. 36	·1082					
19. 12	37. 0	13. 52	·1083					
19. 27	41. 30	14. 5	·1067					
19. 35	40. 30	14. 10	·1072					
19. 41	42. 50	14. 28	·1023					
19. 45	21. 41. 30	14. 45	·0994					
20. 8	22. 2. 10	15. 17	·1104					
21. 33	21. 32. 10	15. 31	·1118					
	***	15. 42	·1094					
22. 27	37. 50	15. 54	·1103					
22. 39	36. 30	15. 58	·1097					
22. 45	40. 10	16. 13	·1118					
23. 6	37. 30	16. 22	·1097					
	***	16. 25	·1105					
23. 59	40. 40	16. 40	·1060					
		16. 46	·1067					
		17. 15	·1067					
		17. 23	·1077					
		17. 27	·1071					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Sept. 3						
h m	° ′ ″	h m		h m		h m	°	°
		17. 32	·1083					
		17. 38	·1080					
		17. 43	·1090					
		17. 49	·1076					
		17. 54	·1086					
		18. 5	·1077					
		18. 10	·1082					
		18. 14	·1068					
		18. 20	·1073					
		18. 29	·1053					
		18. 36	·1053					
		18. 45	·1077					
		18. 53	·1068					
		19. 0	·1085					
		19. 10	·1054					
		19. 31	·1030					
		19. 40	·1038					
		19. 54	·1018					
		20. 7	·1000					
		20. 10	·1039					
		20. 16	·1024					
		20. 47	·1043					
		20. 57	·1056					
		21. 4	·1052					
		21. 35	·1074					
		22. 8	·1076					
			***					
		22. 30	·1065					
			***					
		22. 45	·1075					
			***					
		23. 1	·1064					
		23. 9	·1080					
		23. 14	·1065					
		23. 46	·1068					
		23. 59	·1065					
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
0. 15	21. 42. 25	0. 0	·1065		(†)	1. 40	64 ·2	64 ·3
0. 37	41. 50	0. 24	·1058	1. 40	·00123*	3. 40	65 ·2	66 ·0
0. 57	38. 40	3. 0	·1071	2. 7	·00215	9. 40	65 ·0	65 ·2
1. 10	40. 30	3. 29	·1080	2. 53	·00116	21 40	61 ·0	61 ·4
1. 30	40. 30	3. 35	·1079	4. 6	·00049			
1. 42	42. 0	4. 36	·1090	9. 39	—·00044			
1. 57	41. 0	4. 52	·1081	12. 45	·00083			
2. 21	40. 20	5. 5	·1090	17. 46	·00616			
2. 30	39. 0	5. 18	·1088	19. 34	·00552			
	***	5. 50	·1093	21. 49	{·00521 ·00337			
2. 42	41. 30	6. 0	·1089					
2. 51	40. 30	6. 43	·1091	23. 59	·00242			
3. 6	41. 0	6. 52	·1086					
3. 27	37. 30	8. 40	·1091					
	***	9. 7	·1087					
3. 49	38. 20	10. 29	·1088					
	***	10. 50	·1083					
5. 12	38. 20	11. 28	·1093					
	***	11. 52	·1087					
5. 30	36. 30	12. 1	·1091					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

September 3, 4, and 5. During parts of these days the Vertical Force was smaller than on any other days in the year; the Photographic Trace being, at times, lower on the sheet than the adopted base line.

September 4. A new scale for reduction of the values of ordinates of the Vertical Force curve was brought into use this day, as is explained in the Introduction.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 4		Sept. 4						
h m	° ′ ″	h m		h m		h m	°	°
5. 52	21. 36. 55	12. 16	·1087					
6. 0	35. 30	12. 37	·1092					
	***	13. 10	·1091					
6. 30	36. 10	13. 17	·1102					
	***	13. 47	·1097					
6. 45	35. 0	14. 22	·1098					
	***	14. 32	·1102					
8. 44	36. 10	14. 44	·1098					
	***	15. 23	·1106					
9. 10	35. 10	15. 57	·1092					
9. 22	36. 20	18. 3	·1089					
10. 13	35. 50	18. 16	·1082					
10. 29	34. 30	18. 53	·1095					
10. 50	35. 30	21. 7	·1094					
11. 7	35. 15	22. 16	·1081					
11. 13	35. 55	23. 59	·1080					
	***							
11. 56	34. 55							
	***							
13. 6	34. 35							
13. 25	35. 30							
13. 44	32. 50							
14. 4	34. 50							
14. 15	34. 30							
14. 30	35. 25							
15. 11	33. 20							
15. 28	30. 30							
15. 45	31. 50							
	***							
16. 15	31. 15							
16. 42	32. 0							
17. 11	30. 0							
17. 42	29. 55							
	***							
18. 45	32. 55							
	***							
20. 8	32. 0							
	***							
21. 45	37. 30							
21. 59	36. 0							
22. 15	36. 30							
22. 30	36. 0							
22. 57	37. 15							
	***							
23. 30	37. 25							
	***							
23. 59	39. 45							
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
0. 0	21. 39. 45	0. 0	·1080	0. 0	·00242	1. 40	64 ·2	64 ·8
0. 15	41. 0	0. 38	·1081	1. 0	00090	3. 40	67 ·0	67 ·2
1. 30	39. 0	0. 53	·1075	1. 30	·00060	9. 40	69 ·3	70 ·0
1. 42	38. 30	1. 0	·1070	2. 5	—·00049	23. 7	64 ·0	65 ·4
1. 49	39. 30	1. 11	·1071	4. 21	·00139			
2. 5	37. 55	2. 18	·1080	8. 30	·00123			
	***	2. 37	·1076	10. 23	·00094			
2. 50	35. 0	2. 41	·1083	11. 45	·00157			
2. 58	36. 30	2. 46	·1079	12. 57	·00275			
3. 13	34. 30	2. 52	·1088	17. 0	·00801			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 5		Sept. 5		Sept. 5				
h m	° ′ ″	h m		h m		h m	°	°
3. 45	21. 33. 45	3. 9	·1079	22. 12	·00777			
4. 38	29. 50	3. 22	·1078	23. 31	·00699			
5. 52	35. 10	3. 38	·1086	23. 59	·00660			
6. 7	35. 10	4. 37	·1078					
6. 15	36. 0	5. 5	·1081					
6. 45	35. 50	5. 20	·1078					
6. 59	33. 30	5. 39	·1078					
7. 30:	35. 50	6. 55	·1081					
7. 58	33. 30	7. 8	·1084					
	***	7. 39	·1072					
8. 31	33. 40	8. 20	·1078					
	***	8. 29	·1074					
9. 21	36. 0	8. 39	·1077					
10. 24	34. 30	9. 38	·1071					
11. 25	36. 25	11. 45	·1083					
	***	12. 42	·1082					
12. 41	35. 40	13. 34	·1093					
13. 2	41. 50	15. 15	·1088					
13. 37	35. 0	17. 0	·1093					
14. 15	35. 40	18. 24	·1094					
14. 36	34. 30	18. 39	·1090					
14. 55	36. 0	19. 10	·1092					
	***	20. 15	·1097					
16. 28	33. 55	22. 38	·1068					
17. 59	34. 50	23. 59	·1069					
	***							
19. 5	33. 50							
20. 12	34. 45							
20. 35	36. 10							
20. 54	36. 0							
21. 9	37. 25							
21. 32	37. 0							
21. 55	38. 35							
22. 4	38. 15							
22. 11	39. 20							
22. 36	38. 15							
23. 13	39. 45							
	(†)							
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
	(†)	0. 0	·1068	0. 0	·00655	8. 10	69 ·7	70 ·1
0. 5	21. 41. 10	3. 36	·1078	0. 53	·00554	12. 40	66 ·2	67 ·7
0. 21	40. 40	4. 3	·1072	2. 45	·00090	13. 40	66 ·1	67 ·7
0. 40	41. 30	4. 41	·1079		·00114	14. 40	66 ·1	67 ·4
0. 57	40. 0	5. 30	·1078	5. 15	·00174	15. 40	66 ·1	67 ·0
1. 13	40. 40	10. 16	·1096	9. 0	·00135	16. 40	66 ·1	66 ·6
1. 24	39. 15	10. 23	·1093	10. 30	·00183	17. 40	66 ·1	66 ·4
	***	12. 3	·1098	14. 36	·00695	18. 40	66 ·0	66 ·1
2. 11	38. 40	15. 30	·1089	17. 6	·00915	19. 40	65 ·6	65 ·6
	***	16. 9	·1088	22. 7	·00863	20. 40	65 ·2	65 ·0
3. 30	35. 30	17. 28	·1092		·00760	21. 40	64 ·8	65 ·2
4. 1	32. 30	17. 46	·1089	23. 37	·00725	22. 40	65 ·0	65 ·2
4. 22	32. 35	18. 15	·1093		(†)	23. 40	65 ·7	66 ·0
4. 40	31. 55	18. 30	·1090					
5. 12	32. 0	19. 9	·1094					
5. 45	28. 50	21. 19	·1081					
6. 1	29. 10	21. 38	·1075					
6. 43	32. 0	22. 3	·1073					
7. 0	31. 10	22. 22	·1075					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 6		Sept. 6						
h m	° ′ ″	h m		h m		h m	°	°
7. 51	21. 33. 20	22. 39	·1072					
8. 15	33. 15	22. 53	·1075					
8. 58	35. 20	23. 59	·1072					
9. 30	33. 45							
10. 30	33. 10							
10. 52	34. 0							
11. 13	33. 50							
11. 30	34. 50							
11. 54	33. 40							
12. 37	35. 25							
13. 32	34. 0							
13. 46	34. 10							
14. 15	32. 30							
14. 37	32. 50							
14. 55	32. 20							
15. 13	32. 15							
15. 41	31. 50							
16. 40	32. 40							
17. 43	32. 45							
18. 0	33. 20							
18. 24	33. 35							
18. 43	34. 10							
19. 52	33. 20							
20. 7	34. 0							
20. 18	33. 0							
21. 12	34. 10							
21. 30	36. 5							
21. 42	35. 10							
21. 52	35. 30							
22. 30	39. 10							
22. 40	38. 30							
22. 55	40. 0							
23. 25	39. 40							
23. 41	40. 50							
23. 59	40. 15							
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
0. 0	21. 40. 15	0. 0	·1072		(†)	0. 40	66 ·4	66 ·7
0. 29	42. 10	2. 25	·1078	1. 25	·00503	1. 40	67 ·0	67 ·3
0. 55	43. 35	2. 53	·1072	3. 12	·00188	2. 40	67 ·9	68 ·2
1. 13	39. 50	3. 19	·1079	3. 50	·00260	3. 40	68 ·7	69 ·2
1. 28	39. 30	3. 30	·1071	5. 37	·00274	4. 40	69 ·4	70 ·0
	***	3. 39	·1076	7. 15	·00236	5. 40	70 ·0	70 ·4
2. 6	42. 35	4. 7	·1048	8. 3	·00238	6. 40	70 ·1	70 ·5
2. 25	41. 0	4. 48	·1044	8. 21	·00220	7. 40	69 ·8	71 ·0
2. 41	42. 0	5. 25	·1068	8. 44	·00234	8. 40	69 ·0	70 ·0
2. 55	39. 35	5. 54	·1071	10. 48	·00196	9. 40	68 ·3	69 ·4
3. 13	39. 40	6. 10	·1076	11. 29	·00223	10. 40	67 ·6	68 ·0
3. 27	41. 20	6. 19	·1072	11. 45	·00260	11. 40	66 ·3	67 ·8
3. 52	38. 40	6. 45	·1083	12. 7	·00271	21. 40	66 ·0	67 ·0
	***	7. 42	·1061	12. 30	·00359			
4. 7	39. 30	7. 49	·1064	17. 19	·00926			
4. 16	38. 20	8. 7	·1078	21. 0	·00948			
4. 30	40. 0	8. 19	·1069	23. 59	·00804			
5. 15	33. 50	8. 27	·1088					
6. 45	35. 30	8. 47	·1078					
7. 28	31. 20	8. 55	·1083					
8. 0	29. 35	9. 21	·1078					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 7		Sept. 7						
h m	° ′ ″	h m		h m		h m	°	°
8. 13	21. 33. 45	9. 45	·1078					
8. 31	24. 0	10. 12	·1083					
8. 52	31. 5	10. 23	·1078					
9. 3	31. 10	10. 26	·1081					
9. 14	33. 35	10. 33	·1078					
9. 26	32. 55	10. 52	·1103					
10. 0	34. 15	11. 10	·1102					
10. 13	35. 15	11. 27	·1092					
10. 18	34. 55	11. 40	·1104					
	***	11. 52	·1088					
10. 41	39. 0	12. 9	·1071					
11. 2	28. 50	12. 33	·1092					
11. 32	29. 30	13. 0	·1074					
11. 44	28. 0	13. 11	·1080					
12. 0	33. 10	13. 43	·1081					
12. 30	24. 45	14. 18	·1086					
13. 4	31. 50	15. 23	·1076					
13. 15	31. 0	15. 41	·1077					
13. 30	32. 40	15. 48	·1074					
13. 53	31. 30	16. 30	·1083					
14. 21	33. 30	17. 13	·1090					
14. 40	31. 35	17. 17	·1086					
15. 0	31. 30	20. 37	·1093					
15. 41	36. 50	22. 36	·1074					
16. 22	33. 30	22. 40	·1079					
16. 42	32. 50	23. 10	·1076					
17. 4	31. 20	23. 59	·1080					
17. 13	32. 50							
17. 30	32. 25							
17. 39	33. 0							
17. 50	32. 25							
	***							
19. 10	33. 30							
19. 16	32. 30							
	***							
21. 22	35. 30							
21. 30	36. 30							
	***							
22. 31	37. 15							
22. 48	38. 20							
23. 13	37. 40							
23. 59	40. 35							
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
0. 0	21. 40. 35	0. 0	·1080	0. 0	·00800	1. 40	67 ·4	68 ·0
	***	2. 36	·1081	1. 7	·00737	3. 40	67 ·0	68 ·7
1. 18	40. 10	3. 0	·1078	3. 0	·00605	9. 40	67 ·0	68 ·7
1. 30	39. 30	3. 38	·1083	3. 45	·00523	21. 40	63 ·0	63 ·7
2. 6	42. 0	4. 0	·1091	5. 39	·00470			
2. 57	39. 30	4. 47	·1086	7. 30	·00389			
3. 10	40. 30	4. 53	·1092	10. 18	·00383			
3. 28	39. 25	5. 15	·1081	12. 0	·00477			
4. 10:	41. 10	5. 26	·1085	14. 7	·00755			
	***		***	15. 24	{·00897			
5. 54	36. 30	6. 4	·1084		{·00841			
7. 13	36. 20		***	17. 10	·00875			
7. 44	32. 10	6. 53	·1096	22. 36	·00853			
8. 15	34. 30		**	23. 59	·00789			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 8		Sept. 8						
h m	° ′ ″	h m		h m		h m	°	°
8. 37	21. 33. 55	9. 0	·1086					
8. 51	34. 20	9. 43	·1084					
9. 5	33. 30	10. 16	·1095					
9. 13	34. 0	10. 33	·1090					
9. 25	33. 55	10. 47	·1096					
9. 51	36. 30	10. 54	·1105					
10. 38	36. 10	11. 2	·1104					
11. 20	38. 30	11. 8	·1095					
11. 58	34. 30	11. 35	·1096					
12. 29	38. 0	12. 13	·1089					
13. 44	31. 40	12. 39	·1094					
	***	13. 53	·1082					
15. 16	38. 30	15. 0	·1087					
	***	15. 39	·1081					
17. 11	33. 0	16. 30	·1098					
	(***	16. 44	·1094					
18. 28	32. 30	17. 23	·1102					
	***	18. 10	·1095					
23. 12	37. 55	19. 26	·1097					
23. 41	36. 50	20. 15	·1095					
23. 59	38. 0	22. 47	·1080					
		22. 23	·1081					
		23. 53	·1071					
		23. 59	·1075					
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	21. 38. 0	0. 0	·1074	0. 0	·00780	1. 40	65 ·0	65 ·7
1. 42	42. 45	0. 5	·1077	0. 45	·00720	3. 40	66 ·7	66 ·7
2. 10	41. 45	0. 15	·1075	1. 38	{ ·00681	9. 40	68 ·5	68 ·5
2. 22	42. 5	0. 37	·1078		(·00535	21. 40	63 ·7	65 ·2
3. 45	36. 10	0. 44	·1082	2. 54	·00415			
3. 55	37. 0	1. 24	·1072	5. 6	{ ·00044			
4. 6	35. 0	1. 40	·1073		(·00090			
4. 41	33. 10	1. 57	·1080	8. 30	·00120			
4. 48	33. 30	4. 0	·1091	11. 49	·00077			
5. 21	32. 30	4. 11	·1081	14. 51	·00189			
7. 15	32. 40	5. 16	·1080	17. 50	·00516			
7. 46	33. 30	5. 52	·1090	19. 22	·00617			
8. 11	32. 30	6. 12	·1086	21. 42	·00669			
8. 39	26. 40	6. 46	·1084	23. 59	·00539			
9. 0	31. 0	8. 4	·1090					
9. 21	28. 0	8. 57	·1092					
9. 39	29. 0	9. 14	·1086					
9. 45	28. 45	9. 24	·1093					
10. 26	32. 30	9. 47	·1091					
10. 44	31. 40	10. 14	·1097					
11. 9	32. 0	10. 35	·1089					
11. 34	34. 40	10. 50	·1094					
	***	10. 58	·1090					
12. 40	33. 45	12. 45	·1083					
13. 25	35. 50	13. 9	·1086					
13. 43	35. 0	14. 8	·1084					
14. 24	36. 30	14. 45	·1100					
15. 32	33. 0	15. 0	·1100					
15. 45	34. 15	15. 7	·1094					
16. 24	31. 45	16. 2	·1092					
	***	16. 13	·1096					
17. 10	32. 30	17. 54	·1091					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 9		Sept. 9						
h m	° ′ ″	h m		h m		h m	°	°
17. 45	21. 35. 30	18. 0	·1096					
18. 7	34. 30	18. 39	·1100					
	***	19. 41	·1090					
19. 44	33. 20	19. 58	·1092					
	***	21. 7	·1076					
19. 56	35. 0	21. 39	·1076					
	***	22. 0	·1070					
20. 30	34. 40	23. 25	·1059					
20. 37	35. 35	23. 59	·1062					
20. 45	35. 50							
	***							
22. 1	37. 40							
22. 12	37. 0							
22. 38	38. 0							
	***							
23. 59	36. 50							
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
0. 0	21. 36. 50	0. 0	·1062	0. 0	·00520	1. 40	66 ·7	68 ·0
1. 0	39. 0	0. 37	·1071	0. 35	·00442	3. 40	70 ·5	70 ·3
1. 44	39. 30	2. 39	·1072	1. 30	·00392	9. 40	70 ·5	71 ·0
2. 27	29. 55	3. 25	·1063	2. 38	{ ·00203	21. 40	64 ·2	66 ·0
	***	3. 54	·1065		(·00256			
3. 12	32. 20	4. 4	·1072	3. 29	{ ·00264			
3. 28	31. 25	4. 28	·1070		(·00600			
3. 31	32. 20	4. 37	·1074	4. 30	·00454			
4. 8	29. 30	4. 50	·1074	7. 0	·00443			
5. 11	29. 0	5. 7	·1080	7. 51	·00409			
5. 19	30. 10	5. 25	·1074	8. 21	·00415			
5. 44	30. 5	5. 46	·1075	8. 45	·00336			
6. 14	28. 15	6. 6	·1061	12. 11	·00297			
6. 24	28. 50	6. 14	·1068	15. 0	·00381			
7. 0	21. 0	6. 24	·1062	16. 21	·00497			
7. 21	28. 30	6. 40	·1067	20. 38	·00949			
7. 42	25. 30	6. 49	·1064	21. 20	·00916			
7. 49	28. 0	7. 4	·1070	23. 59	·00897			
8. 0	25. 10	7. 15	·1058					
8. 11	26. 30	7. 38	·1062					
8. 20	24. 50	7. 47	·1044					
8. 24	26. 30	8. 24	·1079					
8. 39	32. 0	8. 40	·1054					
8. 56	26. 10	8. 49	·1064					
9. 7	29. 30	9. 0	·1056					
9. 15	28. 40	9. 41	·1070					
9. 55	34. 30	10. 23	·1066					
10. 10	33. 45	11. 15	·1076					
10. 15	35. 10	12. 0	·1076					
10. 45	33. 30	12. 21	·1082					
11. 4	35. 20	13. 24	·1076					
11. 21	35. 30	13. 37	·1082					
11. 29	36. 30	13. 49	·1078					
11. 40	34. 35	14. 47	·1066					
12. 0	34. 50	15. 0	·1078					
12. 29	38. 30	15. 38	·1075					
12. 53	35. 40	15. 47	·1077					
13. 15	33. 50	16. 0	·1076					
13. 30	34. 20	16. 12	·1078					
14. 30	44. 30	16. 27	·1074					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 10		Sept. 10						
h m	° ′ ″	h m		h m		h m	°	°
14. 45	21. 42. 0	17. 24	·1083					
14. 57	42. 35	17. 45	·1084					
15. 15	39. 50	17. 54	·1089					
	***	21. 0	·1078					
15. 30	39. 40	22. 44	·1067					
15. 54	36. 20	23. 59	·1069					
	***							
16. 40	37. 0							
17. 24	34. 0							
	***							
18. 45	33. 0							
	***							
20. 28	33. 30							
	***							
21. 41	36. 10							
22. 7	34. 0							
22. 58	36. 10							
23. 7	37. 30							
23. 21	37. 50							
23. 37	39. 30							
23. 59	39. 5							
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
0. 0	21. 39. 5	0. 0	·1069	0. 0	·00890	1. 40	64 ·8	65 ·6
0. 15	41. 0	0. 36	·1066	0. 30	·00888	3. 40	65 ·6	65 ·2
1. 12	41. 30	0. 47	·1063	0. 54	·00894	9. 40	66 ·1	66 ·3
1. 15	47. 0	1. 31	·1073		·00780	21. 40	62 ·1	62 ·7
1. 30	45. 35	1. 39	·1069	2. 21	·00843			
1. 45	45. 20	2. 40	·1081	5. 15	·00749			
2. 8	46. 0	2. 47	·1085	10. 30	·00659			
3. 27	41. 30	2. 58	·1082	11. 24	·00665			
3. 45	42. 0	3. 20	·1083	12. 9	·00617			
4. 8	40. 0	3. 44	·1090	14. 15	·00685			
5. 13	36. 50	4. 20	·1081	16. 18	·00870			
6. 13	37. 30	4. 35	·1086	21. 37	·00835			
6. 40	38. 30	4. 49	·1078		·00495			
7. 17	37. 10	5. 11	·1079	23. 21	·00503			
7. 29	38. 0	5. 18	·1082	23. 59	·00475			
7. 54	34. 45	5. 52	·1077					
8. 30	27. 30	7. 45	·1085					
8. 48	32. 15	8. 10	·1078					
10. 30	36. 15	8. 29	·1091					
11. 13	36. 30	8. 48	·1093					
11. 39	42. 30	9. 26	·1084					
12. 45	34. 40	10. 0	·1080					
13. 4	34. 20	11. 0	·1083					
	***	11. 7	·1085					
13. 41	38. 30	11. 26	·1108					
	***	12. 6	·1088					
15. 44	37. 15	13. 32	·1078					
	***	15. 9	·1086					
16. 45	37. 40	15. 39	·1086					
	***	16. 0	·1081					
18. 15	37. 50	16. 24	·1085					
18. 48	38. 30	16. 39	·1091					
19. 3	38. 0	18. 30	·1090					
19. 21	39. 0	19. 11	·1083					
19. 42	36. 50	20. 32	·1085					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 11		Sept. 11						
h m	° ′ ″	h m		h m		h m	°	°
20. 45	21. 39. 30	21. 0	·1081					
20. 59	39. 15	21. 39	·1083					
21. 15	40. 15	23. 0	·1077					
22. 7	38. 30	23. 59	·1074					
22. 32	38. 0							
22. 58	38. 30							
23. 14	38. 0							
23. 59	38. 40							
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 0	21. 38. 40	0. 0	·1074	0. 0	·00470	1. 40	65 ·6	65 ·7
0. 21	39. 30	3. 36	·1077	1. 0	·00388	3. 40	66 ·0	67 ·6
0. 27	44. 0	3. 57	·1081		(†)	9. 40	69 ·0	69 ·3
1. 15	41. 0	5. 45	·1076	2. 43	·00340	22. 39	62 ·3	63 ·4
1. 51	41. 10	6. 32	·1077	3. 4	·00300			
2. 6	43. 30	6. 36	·1075	3. 47	·00294			
2. 52	40. 5	7. 0	·1079		·00540			
3. 13	39. 20	9. 4	·1080	4. 25	·00380			
4. 9	40. 40	10. 5	·1090	7. 0	·00319			
4. 22	39. 50	10. 39	·1086	11. 26	·00277			
6. 39	40. 50	10. 53	·1091	15. 10	·00544			
7. 3	40. 5	11. 7	·1087	18. 37	·00960			
10. 30	43. 35	12. 15	·1085	23. 0	·00897			
	***	14. 36	·1092	23. 59	·00916			
11. 26	43. 30	14. 54	·1089					
11. 42	44. 45	18. 9	·1090					
12. 0	42. 45	19. 10	·1086					
	***	19. 54	·1088					
12. 47	43. 50	20. 11	·1084					
13. 5	43. 10	20. 45	·1084					
13. 15	44. 0	21. 0	·1085					
13. 45	42. 20	21. 13	·1081					
14. 13	46. 20	23. 59	·1086					
15. 0	42. 45							
15. 28	43. 30							
16. 58	41. 30							
18. 55	41. 30							
	***							
20. 15	43. 0							
	***							
22. 31	47. 30							
22. 41	46. 45							
23. 0	47. 10							
23. 21	42. 0							
23. 59	43. 30							
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 0	21. 43. 30	0. 0	·1086	0. 0	·00916	7. 40	69 ·7	70 ·7
0. 27	42. 50		***	0. 54	·00895	12. 40	66 ·3	68 ·2
0. 47	43. 25	2. 0	·1079	1. 15	·00854	13. 40	66 ·0	67 ·5
	***		***		·00780	14. 40	66 ·0	67 ·5
4. 24	30. 5	2. 19	·1084	2. 4	·00674	15. 40	66 ·0	67 ·4
6. 1	28. 30	3. 15	·1081	3. 24	·00296	16. 40	66 ·0	66 ·5
7. 0	30. 40	5. 24	·1075	3. 38	·00336	17. 40	66 ·0	66 ·3
10. 12	34. 45	8. 34	·1088	8. 0	·00381	18. 40	66 ·0	66 ·3
11. 27	35. 15	10. 39	·1090	9. 49	·00354	19. 40	66 ·0	66 ·7
	***	12. 0	·1095	12. 24	·00514	20. 40	66 ·0	66 ·9
13. 15	34. 5	12. 30	·1088	15. 8	·00803	21. 40	66 ·3	66 ·7

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
h m	° ′ ″	h m		h m		h m	°	°
14. 29	21. 32. 45	12. 43	·1091	16. 50	·00943	22. 40	66 ·6	67 ·2
16. 6	34. 10	15. 7	·1084	19. 37	{·01005	23. 40	67 ·0	67 ·2
16. 45	32. 30	16. 0	·1086		{·00665			
16. 53	33. 20	16. 39	·1084	23. 59	·00557			
17. 12	32. 45	17. 0	·1088					
17. 45	34. 10	18. 57	·1063					
	***	19. 44	·1098					
18. 28	29. 50	21. 10	·1085					
	***	22. 15	·1088					
19. 13	36. 30	22. 30	·1077					
	***		(†)					
19. 52	37. 0							
20. 9	33. 20							
20. 30	35. 20							
20. 45	34. 0							
20. 59	36. 10							
	***							
21. 42	37. 40							
21. 54	39. 30							
22. 4	38. 25							
	***							
22. 17	39. 50							
22. 36	39. 0							
23. 14	40. 30							
23. 30	40. 0							
23. 51	41. 10							
23. 59	41. 5							
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 0	21. 41. 5		(†)	0. 0	·00555	0. 40	67 ·4	67 ·7
0. 40	43. 20	0. 32	·1081	0. 51	·00432	1. 40	68 ·0	68 ·0
0. 55	45. 0	1. 0	·1076	2. 39	·00365	2. 40	68 ·5	68 ·0
1. 5	46. 0	1. 11	·1079	8. 7	{·00416	3. 40	69 ·0	68 ·5
	***	1. 24	·1092		{·00596	4. 40	69 ·4	69 ·5
2. 44	45. 30	2. 37	·1074	11. 0	·00534	5. 40	70 ·0	70 ·2
2. 55	46. 5	2. 40	·1078	15. 8	·00661	6. 40	70 ·2	70 ·2
3. 25	38. 40	2. 52	·1076	18. 39	·00995	7. 40	70 ·0	71 ·0
3. 37	39. 45	3. 24	·1096	19. 14	·01027	8. 40	69 ·8	71 ·0
3. 52	39. 50	3. 30	·1087	23. 59	·00977	9. 40	69 ·5	70 ·0
4. 7	38. 30	3. 40	·1091			10. 40	69 ·3	69 ·8
4. 37	38. 0	4. 35	·1088			11. 40	69 ·0	69 ·0
4. 41	38. 55	4. 38	·1100			21. 40	65 ·0	66 ·0
4. 58	38. 0	4. 50	·1087					
5. 45	38. 30	5. 13	·1081					
6. 45	34. 5	5. 48	·1082					
7. 39	39. 10	6. 9	·1078					
7. 54	39. 20		***					
8. 12	37. 45	7. 0	·1087					
8. 58	37. 30	7. 10	·1093					
9. 13	36. 50	7. 23	·1085					
9. 24	37. 0	7. 47	·1086					
9. 45	30. 30	7. 54	·1082					
	***	8. 14	·1084					
10. 45	29. 45	8. 44	·1081					
10. 58	31. 45	8. 57	·1092					
11. 19	31. 30	9. 15	·1078					
11. 41	35. 20	9. 28	·1086					
11. 52	33. 40	9. 36	·1088					
12. 14	33. 30	9. 40	·1097					
Sept. 14		Sept. 14						
h m	° ′ ″	h m						
12. 41	21. 35. 30	9. 54	·1091					
14. 9	36. 25	10. 7	·1093					
14. 40	42. 55	10. 24	·1096					
15. 44	32. 30	10. 33	·1084					
16. 3	31. 30	10. 45	·1088					
	***	11. 4	·1073					
16. 27	31. 50	11. 7	·1078					
16. 37	33. 35	11. 15	·1071					
16. 54	30. 30	11. 28	·1079					
17. 15	30. 30	11. 35	·1076					
17. 36	32. 40	12. 0	·1078					
17. 44	32. 35	12. 26	·1075					
17. 55	33. 55	13. 20	·1080					
18. 7	33. 50	13. 27	·1083					
18. 24	35. 0	13. 36	·1079					
18. 54	38. 25	14. 5	·1080					
19. 24	36. 30	14. 25	·1077					
	***		***					
19. 43	39. 0	15. 4	·1096					
	***	15. 37	·1084					
20. 36	39. 15	16. 3	·1082					
21. 0	38. 0		***					
21. 43	41. 10	17. 15	·1086					
22. 0	40. 0	17. 49	·1077					
22. 20	41. 15	18. 6	·1081					
22. 28	38. 30	18. 12	·1078					
22. 51	40. 0	18. 37	·1087					
22. 59	39. 45	19. 44	·1081					
	***	20. 15	·1084					
23. 51	43. 30	21. 46	·1073					
23. 59	43. 0	23. 0	·1077					
		23. 37	·1066					
		23. 59	·1074					
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
0. 0	21. 42. 30	0. 0	·1074	0. 0	·00970	1. 40	67 ·4	67 ·6
0. 7	42. 0	1. 30	·1075	1. 7	·00934	3. 40	69 ·4	70 ·0
0. 27	45. 0	1. 44	·1069	1. 53	{·00870	9. 40	70 ·4	71 ·2
	***	2. 48	·1069		{·00664	21. 40	66 ·7	67 ·2
0. 45	42. 30	3. 5	·1062	3. 7	·00516			
1. 3	44. 20	3. 23	·1068	3. 34	{·00513			
2. 36	42. 30	4. 6	·1061		{·00735			
3. 9	39. 50		***	4. 22	·00594			
3. 13	42. 30	4. 39	·1068	6. 15	·00516			
3. 39	41. 50		***	9. 21	{·00455			
4. 11	38. 20	5. 0	·1066		{·00763			
5. 30	36. 30		***	14. 19	·00896			
6. 11	36. 35	5. 19	·1070	16. 0	·01016			
7. 8	34. 55	8. 20	·1073	22. 10	·01034			
8. 7	35. 30	8. 40	·1091	23. 59	·00915			
8. 31	33. 50	8. 53	·1083					
8. 51	35. 35	9. 10	·1097					
9. 13	29. 10	10. 47	·1065					
9. 52	34. 0	10. 55	·1070					
10. 40	31. 30	11. 24	·1074					
11. 9	34. 30	12. 32	·1073					
	***	12. 52	·1070					
12. 11	33. 30	13. 15	·1078					
12. 33	35. 10	13. 48	·1083					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 15		Sept. 15						
h m	° ′ ″	h m		h m		h m	°	°
12. 44	21. 35. 0	14. 45	·1079					
12. 56	36. 50	17. 30	·1085					
13. 21	36. 50	22. 40	·1073					
14. 11	38. 25	23. 43	·1075					
14. 30	36. 30	23. 59	·1076					
17. 44	37. 20							
17. 58	36. 20							
21. 0	37. 50							
21. 15	38. 40							
21. 43	37. 30							
23. 41	40. 20							
23. 59	39. 45							
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 0	21. 39. 50	0. 0	·1076	0. 0	·00910	1. 40	71 ·2	71 ·4
0. 29	37. 55	0. 9	·1080	0. 30	·00842	3. 40	73 ·0	74 ·0
1. 11	35. 10	1. 45	·1068	1. 7	·00741	9. 40	71 ·7	73 ·0
1. 59	37. 0	2. 28	·1070	2. 15	·00554	21. 46	62 ·6	65 ·0
3. 0	30. 0	2. 43	·1064	4. 20	{·00640 ·00783			
3. 17	28. 30		***					
3. 28	31. 30	4. 0	·1060	5. 15	·00632			
	***	5. 7	·1063	8. 0	·00574			
4. 13	27. 30	5. 23	·1058	9. 39	·00647			
	***	6. 39	·1060	11. 10	·00836			
5. 0	26. 30	6. 49	·1066	12. 42	·01093			
5. 9	28. 30	7. 0	·1064	18. 0	·01020			
	***	7. 12	·1067	21. 54	·00993			
6. 13	26. 30	8. 24	·1067	22. 52	·01006			
7. 52	34. 30	8. 31	·1071	23. 59	·00930			
8. 15	35. 0	8. 54	·1070					
8. 41	37. 40	9. 6	·1075					
8. 59	36. 50	9. 21	·1071					
9. 8	37. 40	10. 53	·1076					
9. 45	35. 30	11. 45	·1076					
	***	13. 0	·1081					
10. 50	37. 45	13. 30	·1077					
11. 22	36. 20	13. 47	·1079					
	***	14. 0	·1083					
14. 30	37. 0	14. 54	·1088					
	***	15. 38	·1083					
15. 11	35. 10	15. 55	·1088					
15. 45	38. 0	17. 47	·1093					
16. 42	36. 0	21. 35	·1083					
17. 28	37. 50	23. 52	·1070					
	***	23. 59	·1071					
19. 39	35. 0							
	***							
21. 15	35. 15							
21. 36	36. 50							
22. 12	35. 35							
	***							
22. 41	38. 0							
22. 49	37. 45							
23. 30	38. 50							
23. 59	38. 40							
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 0	21. 38. 40	0. 0	·1071	0. 0	·00925	1. 40	69 ·0	70 ·0
1. 12	33. 30	1. 37	·1071	0. 30	·00828	3. 40	73 ·0	74 ·0
1. 43	33. 20	3. 10	·1068	1. 0	·00779	9. 40	72 ·8	73 ·0

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
h m	° ′ ″	h m		h m		h m	°	°
1. 52	21. 34. 0	3. 49	·1070	1. 53	·00553	21. 40	64 ·0	65 ·7
2. 15	30. 0	4. 6	·1064	4. 49	·00658			
	***	4. 45	·1062	7. 37	{·00549 ·00851			
3. 45	29. 50	5. 55	·1060					
3. 50	31. 50	6. 31	·1065	8. 39	·00796			
4. 11	28. 35	7. 0	·1062	10. 8	·00878			
	***	8. 0	·1072	12. 47	·01154			
5. 0	26. 0	9. 47	·1074	19. 10	·01075			
	***	10. 14	·1079	23. 59	·01041			
5. 45	25. 30	10. 43	·1075					
5. 52	29. 0	11. 6	·1077					
7. 7	28. 40	12. 7	·1074					
8. 22	35. 0	12. 45	·1080					
	***	16. 23	·1092					
10. 24	33. 10	17. 1	·1091					
11. 0	34. 30	17. 45	·1094					
	***	21. 37	·1086					
16. 29	35. 30	22. 15	·1076					
16. 45	37. 0	23. 59	·1083					
	***							
19. 38	35. 50							
20. 54	36. 30							
21. 45	39. 30							
22. 15	38. 30							
22. 27	39. 35							
22. 57	38. 0							
	***							
23. 45	38. 30							
	(†)							
Sept. 18		Sept. 18		Sept. 18		Sept. 18		
	(†)	0. 0	·1084	0. 0	·01040	1. 40	67 ·7	69 ·2
0. 10	21. 38. 0	1. 29	·1081	0. 41	·00981	3. 40	70 ·0	71 ·6
0. 28	36. 40		***	1. 24	·00840	9. 40	68 ·0	69 ·8
0. 39	37. 30	3. 3	·1078	1. 48	·00754	21. 40	59 ·0	60 ·0
1. 51	29. 20	4. 7	·1071	2. 34	·00455			
2. 26	30. 0	4. 51	·1070	3. 21	{·00470 ·00890			
	***	5. 6	·1071					
2. 56	25. 30	5. 40	·1072	4. 46	{·00590 ·00761			
	***	6. 9	·1080					
3. 30	28. 30	6. 37	·1077	5. 27	·00665			
3. 59	26. 30	6. 47	·1081	5. 52	{·00654 ·00710			
4. 15	26. 50	7. 31	·1065					
4. 41	24. 10		***	7. 18	·00677			
	***	8. 26	·1082	10. 7	·00816			
5. 10	25. 0	8. 43	·1074	11. 16	·00897			
5. 29	23. 35	9. 31	·1084	11. 34	·00942			
7. 3	29. 0	9. 50	·1095	12. 35	·00903			
7. 45	24. 30	10. 7	·1092		(†)			
8. 7	26. 40	10. 49	·1079	21. 30	·00819			
8. 30	31. 40	11. 8	·1084	22. 13	·00837			
8. 54	31. 30	11. 25	·1073	23. 0	·00916			
9. 13	33. 10	11. 51	·1079	23. 59	·00894			
9. 48	25. 0	11. 54	·1086					
10. 13	28. 20	12. 14	·1078					
10. 23	26. 20	12. 37	·1093					
10. 40	31. 0	12. 54	·1084					
10. 51	26. 40	13. 14	·1083					
11. 13	32. 50	13. 36	·1094					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 18		Sept. 18						
h m	° ′ ″	h m		h m		h m	°	°
11. 51	21. 27. 30	14. 25	·1092					
12. 26	45. 20		(†)					
13. 10	34. 15	21. 40	·1106					
13. 22	34. 40	22. 12	·1096					
	(†)	22. 22	·1110					
21. 49	38. 30	22. 36	·1094					
	***	22. 44	·1099					
22. 42	37. 30	22. 52	·1095					
	***	23. 59	·1095					
23. 44	39. 30							
23. 59	38. 30							
Sept. 19		Sept. 19		Sept. 19		Sept. 19		
0. 0	21. 38. 30	0. 0	·1095	0. 0	·00870	1. 40	62 ·6	64 ·3
0. 4	39. 30	0. 46	·1100	1. 0	·00805	3. 40	65 ·0	66 ·2
2. 15	36. 50	1. 34	·1103	3. 33	·00281	23. 14	61 ·0	62 ·4
3. 14	32. 30	3. 0	·1105	4. 0	·00322			
3. 52	25. 35	6. 0	·1097	9. 9	·00337			
4. 11	29. 10	7. 44	·1103	16. 0	·00552			
5. 18	28. 0	8. 0	·1101	19. 36	·00794			
6. 55	28. 30	8. 12	·1102	21. 20	·00853			
7. 13	27. 30	8. 31	·1101	23. 35	·00856			
8. 42	28. 35	9. 13	·1102		(†)			
9. 0	29. 20	9. 38	·1099					
9. 42	28. 50	9. 54	·1103					
11. 13	32. 20	10. 14	·1097					
11. 28	32. 0	13. 7	·1105					
11. 59	32. 50	13. 30	·1101					
12. 14	33. 30	13. 46	·1104					
12. 23	33. 50	14. 33	·1105					
12. 54	32. 45	15. 7	·1111					
13. 55	32. 45	16. 30	·1109					
14. 40	34. 50	18. 8	·1111					
15. 44	32. 0	18. 50	·1108					
18. 7	34. 10	21. 5	·1103					
18. 52	34. 15	21. 29	·1098					
20. 12	34. 50	22. 46	·1095					
20. 30	34. 30	23. 59	·1099					
21. 43	38. 5							
23. 0	41. 15							
23. 59	39. 10							
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
0. 0	21. 39. 10	0. 0	·1100	0. 0	·00854	7. 37	65 ·3	68 ·0
1. 8	37. 15	2. 54	·1101	0. 52	·00760	21. 40	53 ·4	57 ·0
1. 53	32. 10	4. 9	·1092	2. 0	·00598			
2. 44	29. 5	8. 50	·1099	3. 8	{·00325			
3. 4	26. 20	9. 4	·1102		{·00375			
3. 19	28. 5	11. 38	·1113	4. 9	{·00379			
3. 59	26. 10	18. 13	·1126		{·00483			
4. 44	25. 30	21. 7	·1119	4. 39	·00474			
5. 14	29. 0	21. 46	·1116	4. 54	·00495			
5. 44	27. 30	22. 4	·1112	5. 34	·00460			
6. 12	28. 30	22. 19	·1115	5. 48	·00485			
6. 45	26. 40	22. 30	·1106	6. 30	·00474			
7. 3	28. 20	22. 54	·1117	6. 47	·00502			
7. 27	29. 0	23. 23	·1105	8. 0	·00494			
8. 15	33. 45	23. 59	·1101	9. 51	·00564			
11. 35	35. 50			10. 45	·00635			
	***							

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 20				Sept. 20				
h m	° ′ ″	h m		h m		h m	°	°
18. 15	21. 33. 30			12. 54	·01060			
	***			18. 10	·00958			
19. 51	32. 20			22. 0	·00942			
	***			23. 59	·00926			
20. 43	35. 30							
21. 10	32. 10							
21. 25	35. 30							
21. 39	35. 0							
22. 0	36. 5							
22. 15	38. 30							
22. 32	37. 50							
22. 51	41. 10							
23. 13	41. 40							
23. 30	46. 50							
23. 49	45. 45							
23. 59	48. 0							
Sept. 21		Sept. 21		Sept. 21		Sept. 21		
0. 0	21. 48. 0	0. 0	·1101	0. 0	·00920	1. 40	58 ·7	61 ·2
1. 10	49. 30	2. 36	·1110	1. 47	·00855	3. 40	61 ·6	64 ·0
1. 40	46. 30	2. 48	·1097	2. 23	·00762	9. 40	65 ·0	66 ·0
1. 45	46. 50	3. 7	·1115	3. 9	·00480	21. 40	62 ·0	65 ·0
2. 41	43. 30		***	3. 34	·00324			
2. 54	43. 50	3. 55	·1098	3. 52	·00459			
3. 10	46. 5	4. 30	·1096	5. 33	·00547			
	***	4. 39	·1087	7. 30	·00475			
4. 10	32. 10	5. 7	·1086	9. 22	·00407			
	***	5. 30	·1076	10. 0	·00420			
4. 47	35. 50	5. 52	·1083	10. 53	·00403			
	***	6. 11	·1074	11. 18	·00359			
5. 25	33. 0	6. 57	·1100	14. 10	·00355			
5. 42	28. 30	7. 4	·1094	18. 0	·00506			
5. 58	29. 0	7. 30	·1093	22. 9	·00771			
6. 15	26. 50	7. 37	·1088	23. 59	·00803			
	***	8. 9	·1097					
6. 31	26. 25	8. 23	·1097					
6. 59	27. 30	8. 26	·1093					
7. 21	27. 10	9. 0	·1101					
8. 12	29. 30	9. 23	·1080					
	***	9. 39	·1092					
9. 12	29. 30	10. 15	·1085					
9. 40	21. 30	10. 43	·1095					
10. 10	26. 0	11. 0	·1112					
10. 28	25. 45	11. 7	·1109					
11. 0	32. 10	11. 22	·1112					
11. 26	30. 30	11. 43	·1102					
11. 52	31. 10	11. 54	·1104					
12. 24	39. 35	12. 12	·1093					
12. 47	36. 25	12. 39	·1108					
14. 15	37. 50	13. 30	·1102					
14. 45	34. 30	14. 42	·1106					
	***	15. 56	·1100					
15. 55	37. 30	17. 24	·1114					
16. 12	36. 15	18. 26	·1104					
16. 25	37. 15	19. 5	·1104					
16. 52	35. 5	19. 28	·1084					
17. 0	35. 55	21. 0	·1102					
17. 31:	34. 45	21. 54	·1090					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. at the commencement for Temperature 32°	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. at the commencement for Temperature 32°	Göttingen Mean Solar Time.	Readings of Thermometers in the Magnet House. Of H.F. Magnet.	Of V.F. Magnet.
Sept. 21		Sept. 21						
h m	° ′ ″	h m		h m				
18. 34	21. 38. 55	22. 32	·1093					
19. 15	39. 30	22. 58	·1072					
19. 31	37. 50	23. 47	·1092					
20. 2	40. 0	23. 59	·1090					
20. 32	40. 0							
	***							
21. 44	41. 0							
	***							
22. 1	37. 30							
	***							
23. 26	40. 30							
23. 40	43. 30							
	***							
23. 59	44. 50							
Sept. 22		Sept. 22		Sept. 22		Sept. 22		
0. 0	21. 44. 50	0. 0	·1090	0. 0	·00810	1. 40	63·7	66·1
	***	0. 45	·1079	1. 0	·00791	3. 40	65·0	66·7
1. 8	44. 0	1. 30	·1084	3. 39	·00815	9. 40	65·0	68·2
1. 45	43. 40	2. 1	·1094	5. 0	·00423	21. 40	62·4	65·3
2. 0	42. 20	2. 23	·1086		·00471			
2. 17	46. 30	3. 20	·1090	6. 15	·00502			
2. 48	37. 30	3. 38	·1100		·00584			
3. 58	37. 20	4. 0	·1091	7. 49	·00535			
4. 44	33. 10	4. 15	·1093		·00577			
	***	4. 58	·1089	13. 10	·00547			
6. 10	32. 0	5. 11	·1093	15. 22	·00651			
6. 30	30. 30	5. 33	·1093	20. 56	·00996			
6. 45	31. 50	5. 42	·1100	22. 45	·01040			
7. 44	29. 30	6. 7	·1094	23. 59	·01015			
8. 2	19. 35	6. 30	·1100					
8. 15	26. 30	6. 53	·1095					
	***	7. 36	·1105					
9. 40	31. 45	7. 47	·1093					
10. 12	32. 30	8. 0	·1119					
10. 45	34. 30	8. 13	·1103					
11. 55	29. 20	8. 22	·1104					
12. 45	33. 0	8. 30	·1100					
13. 0	31. 30	9. 22	·1097					
14. 0	36. 0	10. 4	·1104					
14. 18	36. 50	10. 24	·1100					
14. 44	39. 15	11. 6	·1106					
15. 41	34. 45	11. 53	·1097					
16. 58	40. 10	12. 27	·1100					
18. 13	37. 20	12. 45	·1092					
	***	13. 30	·1091					
18. 27	38. 0	14. 14	·1094					
18. 45	34. 50	14. 47	·1101					
	***	17. 0	·1094					
19. 59	36. 30	18. 30	·1103					
20. 11	34. 50	21. 7	·1094					
20. 51	35. 0	21. 36	·1086					
	***	22. 10	·1091					
21. 27	36. 50	22. 53	·1089					
22. 7	36. 30		(†)					
22. 13	38. 30							
	***							
23. 15	33. 50							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. at the commencement for Temperature 32°	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. at the commencement for Temperature 32°	Göttingen Mean Solar Time.	Readings of Thermometers in the Magnet House. Of H.F. Magnet.	Of V.F. Magnet.
Sept. 22								
h m	° ′ ″	h m		h m		h m		
23. 30	21. 33. 45							
	***							
23. 59	33. 40							
Sept. 23		Sept. 23		Sept. 23		Sept. 23		
0. 0	21. 33. 40			0. 0	·00811	1. 40	66·0	68·3
	***	1. 40	·1084	1. 45	·00965	3. 40	68·6	71·0
0. 27	32. 20	2. 12	·1082	1. 30	·00815	9. 40	65·0	66·6
0. 50	34. 30	2. 16	·1077	2. 38	·00841	21. 46	61·0	64·0
		2. 38	·1084	3. 43	·00702			
1. 21	34. 20	4. 9	·1091		·00701			
1. 30	35. 15	5. 48	·1094	4. 9	·00660			
1. 45	33. 30	6. 22	·1081	8. 46	·00835			
	***	6. 37	·1094	11. 5	·00997			
2. 36	35. 0	6. 48	·1083	11. 37	·01010			
3. 26	29. 0	7. 0	·1100	12. 51	·01201			
3. 40	29. 20	7. 7	·1093	14. 53	·01154			
3. 55	32. 30	7. 35	·1104	16. 52	·01077			
		8. 34	·1082	17. 40	·01110			
5. 7	30. 0	8. 54	·1101	22. 0	·01102			
		9. 0	·1097	23. 59	·01110			
6. 12	30. 0	9. 30	·1107					
6. 30	25. 0	10. 0	·1092					
6. 43	27. 30	10. 52	·1100					
6. 58	29. 0	11. 16	·1117					
7. 6	22. 0	11. 42	·1097					
7. 13	22. 0	12. 25	·1104					
7. 43	30. 50	13. 12	·1094					
7. 56	30. 0	14. 19	·1098					
8. 9	31. 30	14. 51	·1096					
8. 27	30. 5	15. 20	·1107					
8. 48	22. 25	15. 55	·1112					
9. 4	27. 5	16. 6	·1114					
9. 15	25. 45	16. 24	·1130					
9. 41	29. 0	16. 45	·1131					
10. 3	32. 15	17. 34	·1111					
10. 15	31. 30	18. 0	·1116					
10. 30	33. 35	18. 23	·1108					
10. 39	33. 40							
10. 52	38. 0	20. 36	·1108					
11. 22	38. 30	23. 0	·1095					
12. 16	24. 45	23. 52	·1101					
12. 39	25. 10	23. 59	·1095					
13. 10	32. 0							
13. 19	31. 30							
13. 37	32. 40							
13. 48	32. 0							
14. 41	42. 30							
15. 3	42. 30							
15. 11	40. 20							
15. 36	47. 0							
16. 45	35. 10							
	***							
17. 37	39. 50							
	***							
19. 37	39. 30							
	***							
21. 27	42. 40							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. as inferred for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. as inferred for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 21								
h m	° ′ ″	h m		h m		h m	°	°
21. 4	21. 40. 30							
22. 30	42. 45							
22. 53	41. 50							
23. 13	41. 50							
23. 59	35. 30							
Sept. 24		Sept. 24		Sept. 24		Sept. 24		
0. 0	21. 35. 30	0. 0	·1095	0. 0	·01130	1. 40	66 ·0	68 ·0
0. 33	34. 30	0. 37	·1083	1. 0	·01038	3. 40	68 ·7	70 ·5
				1. 35	·00948	9. 40	69 ·5	72 ·0
0. 51	36. 40	2. 25	·1089	2. 15	·00800	21. 40	67 ·7	69 ·1
1. 9	34. 0	2. 47	·1085	3. 33	{·00320			
1. 52	33. 30	3. 28	·1082		{·00474			
		3. 39	·1086	5. 0	·00512			
2. 36	34. 15	3. 48	·1079	7. 0	·00481			
2. 45	36. 15	4. 14	·1075	9. 15	·00494			
		5. 18	·1081	10. 41	·00438			
4. 32	27. 50	6. 2	·1078	15. 22	·00592			
	***	6. 24	·1086	19. 30	·00901			
5. 41	25. 30	7. 40	·1084	21. 54	·00985			
		7. 53	·1086	23. 59	·00968			
8. 30	29. 30	8. 24	·1076					
8. 45	21. 10	8. 38	·1079					
9. 15	32. 0	8. 44	·1082					
9. 28	28. 0	9. 0	·1083					
9. 52	32. 20	9. 7	·1082					
10. 11	35. 15	9. 40	·1083					
10. 40	32. 15	9. 53	·1079					
11. 30	36. 20	10. 8	·1091					
	***	10. 39	·1083					
15. 6	37. 55	10. 47	·1088					
15. 20	37. 20	18. 0	·1094					
16. 0	38. 30	20. 32	·1084					
16. 51	38. 0	21. 24	·1077					
17. 39	38. 50	23. 20	·1080					
	***	23. 38	·1074					
19. 10	37. 20	23. 59	·1077					
	***							
19. 53	37. 45							
	***							
20. 59	36. 10							
	***							
22. 0	40. 0							
	***							
23. 59	40. 50							
Sept. 25		Sept. 25		Sept. 25		Sept. 25		
0. 0	21. 40. 50	0. 0	·1077	0. 0	·00968	1. 48	68 ·6	70 ·2
		3. 9	·1088	1. 15	·00910	3. 40	69 ·0	71 ·4
0. 55	44. 0	4. 58	·1090	2. 0	·00857	9. 40	69 ·4	72 ·5
		5. 8	·1085	5. 35	{·00469	21. 40	63 ·0	66 ·0
2. 58	44. 55	5. 21	·1086		{·00495			
4. 11	40. 50	5. 45	·1081	9. 10	·00514			
5. 9	39. 50	6. 27	·1091	10. 30	·00496			
5. 48	38. 0	7. 22	·1086	12. 12	·00552			
	***	8. 0	·1092	15. 30	·00858			
9. 25	37. 30	8. 53	·1088	18. 51	·01274			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. as inferred for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. as inferred for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 25		Sept. 25		Sept. 25				
h m	° ′ ″	h m		h m		h m	°	°
0. 43	21. 36. 0	9. 30	·1091	22. 1	·01214			
10. 5	37. 15	11. 16	·1092	23. 5	·01225			
10. 30	35. 0	11. 47	·1109					
11. 21	35. 30	12. 32	·1091					
11. 50	38. 20	12. 57	·1089					
12. 29	34. 10	13. 13	·1095					
	***	14. 34	·1091					
13. 23	38. 50	14. 48	·1095					
14. 10	35. 15	15. 35	·1094					
14. 37	37. 5	15. 57	·1097					
15. 8	34. 30	17. 55	·1092					
15. 29	36. 0	19. 15	·1100					
15. 47	33. 50	20. 33	·1086					
17. 45	37. 30	21. 26	·1093					
19. 43	37. 40	23. 0	·1076					
20. 11	40. 30	23. 41	·1085					
20. 42	40. 25	23. 59	·1079					
	***							
21. 12	41. 30							
21. 30	38. 10							
	***							
22. 36	35. 0							
	***							
23. 22	37. 30							
23. 59	33. 50							
Sept. 26		Sept. 26		Sept. 26		Sept. 26		
0. 0	21. 33. 50	0. 0	·1079	0. 0	·01225	1. 40	65 ·0	67 ·5
0. 21	32. 35	0. 30	·1077	1. 15	·01190	3. 40	67 ·0	69 ·3
0. 36	40. 20	0. 56	·1083	1. 37	·01165	9. 40	67 ·0	69 ·3
1. 40	38. 30	3. 23	·1076	2. 51	·01062	22. 50	65 ·0	66 ·3
2. 0	39. 45	3. 30	·1080	5. 0	·00674			
3. 16	30. 0		***	6. 29	·00462			
3. 32	30. 0	5. 6	·1092	7. 30	{·00388			
3. 41	29. 0	5. 25	·1086		{·00461			
3. 45	32. 30	9. 44	·1098	9. 8	·00494			
4. 10	30. 30	10. 9	·1104	10. 50	·00617			
4. 44	36. 0	10. 40	·1098	11. 18	·00621			
5. 21	37. 0	10. 57	·1132	11. 54	·00704			
6. 43	32. 45	11. 37	·1099	12. 25	·00716			
8. 39	37. 0	11. 52	·1120	15. 30	·01155			
10. 10	36. 0	12. 22	·1102	17. 18	·01163			
10. 32	37. 10	12. 39	·1118	21. 23	·01235			
	***		***	23. 2	·01177			
11. 29	32. 45	13. 44	·1101	23. 59	·01140			
12. 0	43. 0		***					
12. 57	30. 35	15. 37	·1107					
13. 17	32. 30		***					
13. 44	31. 30	16. 39	·1107					
14. 45	37. 0	18. 54	·1124					
15. 13	36. 0	20. 30	·1114					
15. 58	36. 30	22. 0	·1112					
16. 32	40. 20	23. 59	·1100					
16. 59	37. 50							
17. 28	39. 10							
19. 22	40. 30							
19. 39	38. 30							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F.	Of V. F.	Of Magnet.
Sept. 26									
h m	° ′ ″	h m		h m		h m			°
23. 6	21. 38. 30								
23. 16	36. 0								
23. 30	38. 0								
23. 40	37. 20								
23. 52	37. 15								
23. 59	37. 30								
Sept. 27		Sept. 27		Sept. 27		Sept. 27			
0. 0	21. 37. 30	0. 0	·1100	0. 0	·11137	8. 40	68	·5	·2
0. 9	38. 0	0. 9	·1100	1. 11	·01071	12. 40	68	·2	·6
0. 12	36. 50	0. 21	·1095	2. 35	·00920	13. 40	68	·2	·5
0. 33	35. 30	0. 35	·1097	6. 7	·00402	14. 40	68	·1	·3
0. 43	37. 0	0. 49	·1094		·00457	15. 40	68	·1	·4
		1. 13	·1097	9. 15	·00485	16. 40	68	·0	·3
1. 59	38. 20	1. 30	·1095	15. 39	·00473	17. 40	68	·0	·3
2. 13	37. 20	2. 5	·1098	15. 50	·00443	18. 40	68	·0	·2
3. 13	38. 0	2. 17	·1093	23. 59	·00492	19. 40	68	·0	·2
5. 7	34. 40	2. 30	·1094			20. 40	68	·1	·2
8. 25	33. 10	4. 41	·1098			21. 40	67	·9	·3
9. 0	35. 30	4. 55	·1104			22. 40	67	·9	·3
10. 36	34. 10	6. 15	·1095			23. 40	67	·9	·3
11. 48	36. 35	10. 30	·1103						
12. 43	37. 30	10. 46	·1100						
12. 56	38. 40	13. 27	·1107						
14. 10	34. 30	14. 24	·1098						
15. 45	33. 50	16. 15	·1098						
16. 11	35. 50	19. 6	·1100						
18. 57	37. 50	21. 37	·1094						
19. 49	34. 0	22. 10	·1096						
20. 12	35. 5	22. 55	·1095						
21. 20	33. 50		(†)						
21. 34	37. 5								
22. 0	37. 20								
22. 57	38. 40								
23. 59	41. 50								
Sept. 28		Sept. 28		Sept. 28		Sept. 28			
0. 0	21. 41. 50		(†)	0. 0	·00455	0. 40	67	·6	·4
0. 37	41. 10	1. 40	·1093*	1. 30	·00454	1. 40	67	·4	·5
0. 46	41. 55	1. 54	·1092	2. 52	·00472	2. 40	67	·7	·7
1. 8	40. 50	2. 45	·1091	4. 30	·00436	3. 40	68	·0	·0
1. 52	39. 30		***		·00435	4. 40	68	·0	·0
2. 12	38. 40	3. 10	·1094	5. 54	·00439	5. 40	68	·0	·2
3. 0	40. 5		***	8. 0	·00423	6. 40	68	·2	·1
3. 13	39. 30	6. 0	·1093	10. 36	·00479	7. 40	67	·7	·0
4. 10	38. 40		***	11. 39	·00568	8. 40	67	·6	·7
4. 56	35. 0	8. 4	·1098	15. 40	·01203	9. 40	66	·7	·5
5. 34	33. 10		***	21. 36	·01107	10. 40	65	·8	·0
5. 47	34. 50	9. 39	·1097		·00823	11. 40	65	·2	·0
	***		***	23. 7	·00921	21. 40	58	·0	·2
7. 13	31. 50	12. 18	·1100	23. 59	·00920				
7. 44	32. 0	19. 0	·1114						
9. 21	28. 10	21. 0	·1112						
9. 47	30. 0	21. 24	·1107						
10. 41	28. 40	21. 45	·1106						
10. 54	29. 30	21. 54	·1104						
11. 7	28. 0	22. 10	·1106						
11. 13	30. 30	22. 54	·1099						
	***		(†)						

Göttingen Mean Solar Time	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Readings of Thermometers. Of H. F.	Of V. F.	Of Magnet.
Sept. 28								
h m	° ′ ″	h m		h m				
15. 54	21. 38. 30							
18. 51	38. 35							
19. 11	37. 10							
	***							
21. 4	36. 55							
21. 44	33. 0							
21. 58	34. 30							
22. 21	34. 0							
23. 59	36. 0							
Sept. 29		Sept. 29		Sept. 29		Sept. 29		
0. 0	21. 36. 0	0. 0	·1092	0. 0	·00412	1. 40	62	·5
0. 36	36. 10	0. 30	·1092	1. 0	·00443	5. 40	64	·1
0. 43	37. 30	1. 0	·1092	1. 30	·00458	9. 40	64	·1
1. 24	33. 30	2. 30	·1093	3. 14	·00382	21. 40	59	·7
2. 43	29. 10	4. 43	·1096	4. 51	·00429			
2. 51	30. 30	5. 9	·1093	8. 54	·00350			
3. 29	28. 30	7. 9	·1103	9. 50	·00382			
3. 44	29. 30	8. 15	·1100	13. 11	·00682			
3. 55	26. 35	8. 33	·1106	18. 1	·01175			
4. 8	28. 40	9. 10	·1107	19 40	·01141			
4. 15	28. 0	9. 39	·1100	21. 17	·01153			
4. 31	30. 10	11. 0	·1109	23. 59	·01135			
	***	11. 12	·1106					
5. 20	33. 0	13. 30	·1110					
5. 41	32. 30	13. 57	·1113					
5. 52	32. 0	14. 21	·1112					
6. 57	35. 10	14. 43	·1117					
7. 12	34. 30	15. 50	·1111					
	***	16. 47	·1117					
8. 11	36. 50	17. 31	·1110					
8. 45	34. 30	18. 40	·1130					
13. 19	34. 35	19. 9	·1135					
13. 49	35. 50	19. 15	·1128					
15. 45	38. 20	19. 24	·1132					
16. 0	40. 30	19. 56	·1130					
17. 0	39. 0	20. 8	·1121					
	***	20. 23	·1128					
17. 24	38. 0	21. 54	·1104					
17. 45	37. 30	22. 0	·1106					
18. 10	38. 30	22. 8	·1102					
	***	22. 15	·1108					
18. 43	38. 0	22. 26	·1105					
18. 52	39. 0	22. 34	·1112					
18. 58	37. 30	22. 53	·1108					
	***	23. 22	·1096					
19. 32	38. 30	23. 59	·1092					
19. 43	41. 0							
19. 52	39. 20							
20. 8	38. 40							
20. 14	41. 10							
20. 29	39. 30							
	***							
21. 25	39. 30							
21. 52	36. 30							
21. 59	38. 30							
22. 12	37. 55							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 29								
h m	° ′ ″	h m		h m		h m	°	°
22. 26	21. 39. 30							
23. 13	37. 0							
23. 22	40. 40							
23. 34	40. 20							
23. 59	43. 0							
Sept. 30		Sept. 30		Sept. 30		Sept. 30		
	(†)		(†)	1. 40	·01075	1. 40	62 ·7	64 ·2
1. 40	21. 41. 21	1. 40	·1083		(†)	3. 40	64 ·6	65 ·3
	(†)		(†)	3. 15	·00878	9. 40	67 ·0	68 ·7
3. 30	35. 50	3. 20	·1082	4. 24	·00769	21. 40	61 ·0	64 ·0
3. 46	34. 30	3. 31	·1084	6. 11	{·00400			
4. 27	32. 55	3. 53	·1082		{·00475			
5. 12	32. 55	4. 35	·1088	9. 50	·00441			
6. 6	29. 0	6. 0	·1085	11. 4	·00360			
6. 11	29. 15	6. 17	·1077	15. 40	·00801			
7. 8	26. 20	6. 45	·1078	20. 26	·01197			
7. 40	28. 30	7. 39	·1084	21. 39	{·01204			
8. 20	29. 30	7. 51	·1090		{·00736			
8. 42	28. 20	7. 54	·1083	23. 59	·00735			
10. 0	32. 15	9. 10	·1087					
10. 36	25. 25	9. 39	·1086					
10. 53	30. 50	9. 45	·1094					
11. 7	30. 50	9. 57	·1097					
11. 18	32. 35	10. 24	·1121					
11. 33	32. 15	10. 36	·1122					
11. 56	33. 45	10. 52	·1134					
12. 13	32. 45	11. 25	·1102					
13. 45	36. 10	11. 36	·1104					
15. 35	35. 30	12. 23	·1108					
16. 47	36. 30	12. 48	·1106					
17. 12	38. 30	13. 2	·1108					
19. 23	42. 30	13. 10	·1105					
19. 40	44. 0	15. 9	·1113					
20. 36	42. 40	18. 0	·1124					
21. 37	44. 50	18. 36	·1125					
21. 52	43. 30	20. 45	·1116					
22. 21	43. 45	21. 2	·1111					
22. 59	40. 30	22. 30	·1118					
23. 8	43. 10	22. 48	·1105					
23. 27	43. 40	22. 54	·1106					
23. 42	42. 45	23. 59	·1098					
23. 59	43. 45							
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
0. 0	21. 43. 45	0. 0	·1098	0. 0	·00735	1. 40	64 ·0	66 ·5
1. 0	42. 0	2. 21	·1086	0. 30	·00690	3. 40	65 ·6	68 ·2
1. 25	42. 40	2. 39	·1081	1. 12	·00637	9. 40	68 ·0	70 ·5
2. 8	40. 30	2. 51	·1082	2. 40	·00496	21. 40	61 ·6	64 ·6
2. 19	41. 40	3. 5	·1081	4. 9	·00536			
3. 12	38. 20	3. 21	·1088	10. 6	·00482			
	***	4. 15	·1080	11. 20	·00468			
3. 44	38. 10	5. 25	·1085	13. 53	·00553			
4. 45	34. 20	5. 44	·1083	16. 10	·00775			
5. 10	34. 10	5. 56	·1088	17. 52	·01204			
	***	6. 40	·1082	20. 39	·01195			
5. 59	30. 0	7. 39	·1092	23. 59	·01233			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 1		Oct. 1						
h m	° ′ ″	h m		h m		h m	°	°
6. 41	21. 31. 50	8. 11	·1090					
	***	8. 43	·1094					
8. 14	31. 30	9. 30	·1094					
9. 46	34. 30	10. 16	·1103					
10. 13	32. 45	10. 45	·1099					
11. 7	35. 30	10. 53	·1102					
11. 21	34. 45	13. 50	·1103					
12. 13	35. 0	14. 14	·1106					
12. 51	37. 20	16. 45	·1106					
13. 0	36. 40	18. 5	·1111					
13. 48	37. 45	18. 37	·1106					
15. 0:	36. 25	19. 25	·1113					
16. 39	38. 50	20. 30	·1114					
16. 52	38. 5	20. 49	·1110					
17. 41	38. 35	21. 9	·1113					
18. 43	42. 50	22. 7	·1111					
	***	22. 54	·1101					
20. 31	41. 30	23. 30	·1099					
20. 58	42. 15	23. 52	·1092					
21. 26	41. 30	23. 59	·1093					
22. 0	42. 30							
22. 35	38. 45							
22. 44	39. 50							
23. 59	34. 0							
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
0. 0	21. 34. 0	0. 0:	·1093	0. 0	·01230	1. 40	65 ·8	67 ·3
0. 15	32. 30	5. 9	·1084	1. 20	·01123	3. 40	68 ·2	70 ·0
0. 23	34. 50	5. 22	·1088	2. 5	·01034	9. 40	69 ·0	70 ·3
0. 45	31. 30	6. 17	·1084	4. 20	{·00515	21. 40	63 ·8	66 ·4
0. 51	38. 40	6. 36	·1078		{·00561			
1. 4	38. 10	7. 5	·1074	6. 43	{·00526			
	***	7. 30	·1092		{·00842			
2. 0	38. 10	7. 38	·1089	8. 7	·00821			
2. 56	31. 15	7. 49	·1074	11. 30	·00777			
3. 13	31. 0	9. 19	·1077	12. 21	·00901			
3. 30	29. 15	9. 33	·1083	13. 53	·01032			
3. 39	31. 0	10. 0	·1082	16. 24:	·01294			
3. 51	29. 10	11. 23	·1097	20. 30	·01295			
5. 43	26. 40	11. 37	·1107	23. 59	·01241			
7. 0	29. 20	12. 10	·1094					
7. 15	23. 50	13. 34	·1099					
7. 42	28. 5	14. 30	·1094					
8. 8	25. 30	15. 2	·1102					
8. 41	31. 30	15. 54	·1098					
9. 44	27. 0	16. 30	·1107					
10. 40	33. 20	19. 38	·1099					
11. 11	34. 30	19. 56	·1105					
11. 21	33. 35	22. 30	·1088					
11. 43	36. 35	22. 42	·1095					
12. 13	32. 0	23. 9	·1096					
13. 14	35. 30	23. 37	·1092					
13. 44	33. 30	23. 59	·1095					
14. 41	38. 0							
15. 42	37. 30							
16. 36	38. 0							
	***							
17. 7	36. 55							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.	
Oct. 2								
h m	° ′ ″	h m		h m		h m	°	°
19. 40	21. 36. 30							
19. 53	33. 20							
22. 50	33. 30							
23. 15	32. 30							
23. 30	35. 0							
23. 43	33. 0							
23. 59	33. 50							
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
0. 0	21. 33. 50	0. 0	·1095	0. 0	·01204	1. 40	66	·0 67 ·6
0. 11	32. 0	1. 29	·1093	2. 39	·01255	3. 40	66	·4 68 ·2
0. 28	32. 10	1. 46	·1096	3. 54	·01254	9. 40	67	·5 69 ·4
0. 58	34. 0	1. 55	·1094	11. 0	·01222	22. 50	65	·5 66 ·7
1. 15	32. 30	3. 12	·1089	11. 54	·01167			
1. 34	33. 0	3. 44	·1092					
1. 43	35. 0	4. 17	·1086	23. 0	·01096			
2. 45	34. 10	7. 0	·1093	23. 59	·01119			
2. 50	35. 40	8. 39	·1104					
3. 13	31. 30	9. 27	·1099					
3. 25	34. 30	10. 55	·1106					
4. 22	26. 10	12. 12	·1104					
5. 36	30. 5	12. 36	·1106					
6. 2	29. 20	12. 54	·1104					
6. 43	31. 50	13. 23	·1108					
7. 9	31. 35	13. 41	·1105					
11. 7	35. 30	14. 22	·1111					
13. 30	35. 50	15. 0	·1105					
14. 8	38. 10	15. 44	·1109					
14. 29	37. 0	15. 49	·1105					
14. 59	38. 30	16. 17	·1109					
15. 39	36. 0	19. 7	·1108					
16. 10	37. 55	21. 0	·1102					
16. 41	36. 30	22. 4	·1085					
17. 45	37. 30	23. 59	·1093					
19. 41	37. 30							
20. 27	35. 30							
20. 58	37. 5							
21. 21	36. 50							
21. 40	37. 10							
22. 11	36. 45							
23. 59	37. 10							
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
0. 0	21. 37. 10	0. 0	·1093	0. 0	·01119	9. 20	61	·0 64 ·0
2. 37	38. 30	5. 4	·1103	0. 53	·01088	12. 40	59	·8 63 ·2
5. 50	36. 30	7. 13	·1111	0. 54	·01194	13. 40	59	·5 62 ·7
7. 26	35. 40	7. 34	·1114	2. 15	·01138	14. 40	59	·3 62 ·5
8. 12	36. 20	8. 36	·1112	4. 21	·00966	15. 40	59	·3 62 ·4
8. 46	31. 10	9. 20	·1108	6. 41	·00700	16. 40	59	·5 62 ·4
	***	9. 49	·1114	8. 0	·00649	17. 40	59	·2 61 ·8
10. 45	35. 30	10. 15	·1112	8. 58	·00636	18. 40	59	·4 61 ·7
11. 3	40. 0	10. 48	·1113		·00815	19. 40	59	·2 61 ·5
11. 45	32. 30	11. 7	·1111	11. 42	·00823	20. 40	59	·0 61 ·2
12. 44	36. 30	11. 25	·1124	15. 35	·01020	21. 40	59	·0 61 ·0
	***	11. 42	·1118	19. 11	·01294	22. 40	59	·0 61 ·0
13. 57	35. 0	14. 0	·1111		·01248	23. 40	59	·4 61 ·2
15. 45	34. 0	16. 36	·1116	22. 52	·01225			
17. 38	29. 10	17. 30	·1112		(†)			

	Western Declination.		Horizontal Force in parts of the whole H. F. uncorrected for Temperature.		Vertical Force in parts of the whole V. F. uncorrected for Temperature.		Readings of Thermometers.	
Oct. 4		Oct. 4						
h m	° ′ ″	h m		°		h m	°	°
17. 57	21. 29. 50	18. 0	·1108					
18. 6	32. 10	18. 28	·1113					
18. 13	31. 0	18. 53	·1112					
18. 24	30. 50	20. 27	·1107					
18. 36	32. 0	20. 45	·1113					
18. 43	30. 30		***					
19. 11	29. 55	23. 59	·1084					
19. 36	31. 0							
19. 52	29. 30							
20. 30	30. 5							
20. 45	29. 40							
21. 29	32. 25							
22. 15	29. 10							
23. 10	32. 20							
23. 41	32. 20							
23. 59	33. 50							
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
0. 0	21. 33. 50	0. 0	·1084		(†)	0. 40	60	·6 62 ·6
	***	2. 4	·1102	0. 7	·01074	1. 40	62	·0 63 ·5
0. 24	32. 0	2. 28	·1097	0. 45	·01046	2. 40	63	·3 65 ·0
		2. 45	·1099	2. 15	·00782	3. 40	64	·4 67 ·4
1. 45	32. 10	3. 7	·1094			4. 40	64	·5 67 ·1
1. 53	34. 30	3. 41	·1104	4. 42		5. 40	63	·9 66 ·5
2. 7	32. 10	4. 34	·1111	6. 0	·00240	6. 40	63	·4 66 ·0
2. 44	33. 15	4. 39	·1108	6. 54	·00245	7. 40	62	·5 65 ·4
2. 51	32. 20	5. 8	·1097	8. 0	·00269	8. 40	61	·8 64 ·5
3. 0	34. 0	6. 15	·1104	9. 26	·00381	9. 40	60	·7 63 ·5
3. 13	32. 0	7. 54	·1108	16. 21	·01087	10. 40	60	·0 63 ·0
		8. 15	·1105	20. 38	·01076	11. 40	60	·0 63 ·3
3. 45	33. 50	8. 44	·1104		·00982	21. 40	56	·4 58 ·7
4. 0	32. 20	9. 10	·1110	22. 0	·01015			
		9. 47	·1107	23. 59	·00895			
4. 41	32. 25	10. 40	·1108					
4. 51	34. 30	11. 22	·1111					
		11. 32	·1110					
6. 0	29. 30	15. 30	·1120					
	***	16. 24	·1129					
7. 51	29. 10	17. 35	·1122					
7. 58	30. 30	18. 41	·1121					
8. 10	29. 25	19. 30	·1134					
8. 21	29. 0							
8. 43	29. 30	20. 0	·1122					
8. 59	26. 10							
10. 15	31. 30	20. 6	·1130					
	***	20. 33	·1124					
11. 44	33. 50	21. 44	·1120					
	***	22. 23	·1119					
14. 38	32. 50	22. 41	·1120					
	***	23. 12	·1112					
15. 5	34. 5	23. 59	·1115					
	***							
15. 41	32. 35							
16. 8	35. 10							
16. 54	32. 40							
	***							
18. 14	33. 0							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

The sheet was changed between October 4d. 0h. 53m. and 0h. 54m., and the difference between the two readings of the Vertical Force Magnet arises from the difference of shrinking of the two sheets, or from some change in the apparatus produced by the disturbance.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 5								
h m	° ′ ″	h m		h m		h m	°	°
18. 57	21. 35. 10							
	***							
19. 13	32. 10							
	***							
19. 42	34. 0							
	***							
19. 53	32. 0							
	***							
20. 24	33. 30							
21. 12	33. 30							
21. 23	30. 5							
	***							
22. 15	32. 0							
22. 28	34. 30							
22. 52	36. 50							
23. 14	33. 30							
	***							
23. 22	37. 10							
	***							
23. 27	34. 30							
23. 43	36. 20							
23. 52	34. 0							
	***							
23. 59	34. 50							
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
0. 0	21. 34. 50	0. 0	·1115	0. 0	·00890	1. 40	60 ·7	62 ·0
0. 15	34. 0	3. 50	·1119	1. 25	·00874	3. 40	63 ·0	65 ·2
1. 40	35. 12*	4. 25	·1115	2. 16	·00725	9. 40	62 ·5	64 ·4
1. 52	36. 50	4. 36	·1117	3. 39	·00265	21. 56	57 ·0	59 ·3
2. 43	29. 0	5. 17	·1116		·00297			
2. 57	28. 40	5. 36	·1121	7. 23	·00212			
3. 7	29. 30	5. 44	·1116	8. 45	·00200			
3. 16	27. 10	6. 47	·1120	10. 22	·00309			
3. 29	28. 30	7. 45	·1116	16. 43	·01094			
3. 44	33. 35	10. 9	·1118	22. 6	·01066			
4. 15	29. 30		***	23. 59	·01062			
4. 47	31. 45	14. 32	·1129					
6. 6	33. 10		***					
6. 57	37. 0	15. 30	·1136					
7. 17	36. 40		***					
8. 0	37. 45	16. 54	·1133					
8. 15	37. 0		***					
9. 29	38. 0	18. 21	·1135					
9. 53	36. 0		***					
10. 25	37. 30	18. 42	·1133					
10. 52	36. 50	19. 15	·1134					
11. 12	37. 35	20. 23	·1129					
11. 16	37. 10	21. 25	·1121					
11. 42	38. 0	21. 39	·1122					
11. 49	37. 5	23. 59	·1109					
12. 10	37. 30							
12. 15	37. 25							
12. 39	38. 0							
12. 45	37. 40							
13. 15	38. 30							
13. 37	37. 55							
13. 52	38. 10							
14. 0	37. 40							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 6								
h m	° ′ ″	h m		h m		h m	°	°
14. 14	21. 37. 45							
14. 23	37. 0							
15. 15	38. 45							
15. 28	38. 5							
15. 48	38. 30							
16. 4	37. 30							
16. 25	37. 45							
16. 41	37. 20							
17. 16	37. 55							
17. 40	37. 10							
18. 3	37. 45							
18. 15	37. 0							
19. 3	36. 50							
19. 28	37. 30							
19. 59	34. 40							
20. 14	35. 30							
20. 41	34. 50							
21. 0	35. 10							
21. 28	37. 50							
22. 5	36. 40							
22. 24	38. 40							
23. 17	41. 35							
23. 41	40. 5							
23. 48	42. 0							
23. 59	41. 30							
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
0. 0	21. 41. 30	0. 0	·1108	0. 0	·01055	7. 0	61 ·0	62 ·7
0. 51	45. 10	0. 51	·1106	1. 30	·00983	21. 40	58 ·1	59 ·4
2. 10	46. 50	1. 30	·1121	2. 53	·00867			
2. 44	45. 55	1. 49	·1115	5. 15	·00737			
3. 52	47. 40	2. 12	·1120	6. 26	·00700			
5. 25	44. 45	2. 38	·1117	7. 18	·00702			
5. 43	46. 5	3. 15	·1123	9. 39	·00574			
6. 0	44. 20	3. 52	·1122	11. 15	·00515			
6. 13	46. 30	3. 56	·1126	12. 30	·00549			
6. 40	44. 30	4. 4	·1120	15. 24	·00694			
7. 14	30. 30	4. 10	·1123	23. 21	·01081			
7. 43	35. 50	4. 37	·1115	23. 59	·01070			
7. 55	34. 30	4. 49	·1119					
8. 20	37. 40	4. 55	·1115					
9. 17	37. 0	5. 37	·1121					
	***	5. 51	·1113					
11. 13	38. 50	6. 8	·1118					
13. 14	37. 50	6. 15	·1106					
14. 42	40. 30	6. 39	·1115					
16. 7	41. 20	7. 3	·1097					
16. 12	42. 40	7. 37	·1106					
16. 32	40. 5	7. 46	·1099					
16. 52	41. 30	8. 0	·1108					
17. 12	40. 10	8. 20	·1102					
17. 24	41. 0	9. 7	·1125					
17. 52	39. 0	9. 39	·1119					
18. 40	40. 0	9. 54	·1122					
19. 0	36. 50	10. 24	·1121					
19. 11	38. 50	10. 43	·1127					
19. 42	39. 50	10. 58	·1123					
20. 9	37. 50	11. 22	·1126					
20. 23	38. 30	11. 32	·1125					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 7		Oct. 7						
h m	° ′ ″	h m		h m		h m	°	°
20. 59	21. 37. 0	11. 53	·1128					
21. 14	35. 30	14. 0	·1120					
21. 36	39. 30	18. 24	·1136					
21. 57	39. 30	19. 6	·1120					
22. 27	42. 50	19. 57	·1129					
22. 43	42. 15	20. 24	·1126					
23. 25	47. 10	20. 41	·1131					
23. 59	46. 50	22. 0	·1128					
		22. 21	·1122					
		23. 30	·1119					
			(†)					
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 0	21. 46. 30		(†)	0. 0	·01069	1. 46	59 ·0	60 ·0
0. 12	53. 55	0. 17	·1122	0. 19	·01061	3. 40	60 ·0	61 ·0
0. 23	49. 35	0. 54	·1124		·00998	9. 40	60 ·0	63 ·0
0. 37	55. 30	1. 24	·1131	1. 21	·01015	21. 40	54 ·0	58 ·0
0. 49	57. 50		***	3. 30	·00937			
0. 57	55. 30	1. 39	·1122	4. 39	·00836			
1. 7	56. 30		***	7. 0	·00455			
1. 14	50. 30	2. 48	·1122	8. 45	·00288			
1. 24	53. 50		***	11. 10	·00184			
1. 39	50. 0	2. 58	·1126	12. 51	·00951			
	***		***	14. 19	·00298			
2. 37	50. 10	3. 5	·1121	20. 24	·01057			
2. 44	54. 0	3. 37	·1129		·01021			
4. 22	50. 0	4. 15	·1126	23. 4	·01046			
5. 45	49. 30	5. 16	·1132		·00954			
5. 59	48. 30	5. 33	·1128	23. 59	·00960			
7. 12	45. 50	6. 7	·1129					
8. 7	46. 0	7. 8	·1124					
8. 21	44. 0	7. 30	·1128					
9. 3	42. 45	10. 36	·1125					
9. 23	43. 30	10. 45	·1136					
9. 45	48. 35	11. 0	·1128					
10. 15	49. 0	11. 27	·1125					
10. 27	46. 40	11. 42	·1130					
10. 45	48. 30	12. 0	·1126					
11. 29	49. 40	12. 19	·1135					
11. 53	48. 20	13. 8	·1125					
12. 10	51. 30	19. 0	·1139					
12. 40	49. 20	21. 10	·1130					
12. 56	49. 30	22. 30	·1117					
13. 11	51. 30	23. 59	·1113					
13. 36	49. 45							
14. 52	50. 45							
15. 26	49. 50							
16. 0	50. 30							
16. 12	53. 30							
19. 10	51. 50							
19. 21	50. 50							
19. 37	50. 55							
19. 45	49. 55							
20. 59	51. 15							
21. 21	50. 0							
22. 27	54. 30							
23. 13	54. 0							
	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
h m	° ′ ″	h m		h m		h m	°	°
	(†)	0. 0	·1113	0. 15	·00357	1. 40	56 ·8	59 ·2
0. 13	21. 53. 30	0. 48	·1111	2. 5	·00411	3. 40	58 ·6	61 ·5
0. 44	54. 45	1. 15	·1104	3. 47	·00354	9. 40	60 ·2	63 ·2
	***	3. 0	·1116	4. 54	·00344	21. 40	56 ·4	58 ·6
1. 18	53. 20	3. 12	·1113	6. 45	·00332			
1. 30	51. 0	3. 39	·1116		·00411			
2. 12	51. 10	4. 28	·1112	8. 59	·00236			
2. 22	48. 30	5. 0	·1118	13. 50	·00418			
2. 51	49. 30	6. 14	·1113	16. 19	·00200			
3. 22	48. 0	7. 30	·1115	18. 49	·00410			
3. 37	50. 30	7. 51	·1118	22. 23	·00734			
4. 44	42. 40	11. 53	·1117	23. 54	·00758			
4. 56	45. 35	12. 18	·1128					
5. 21	39. 30	12. 36	·1122					
5. 47	38. 0	13. 7	·1126					
	***	13. 30	·1121					
9. 40	42. 30	14. 29	·1116					
9. 44	44. 0	18. 23	·1126					
12. 7	45. 30	21. 9	·1120					
12. 16	44. 30	22. 37	·1112					
12. 30	45. 5	23. 10	·1102					
12. 41	44. 10	23. 59	·1100					
12. 48	44. 40							
13. 21	43. 10							
14. 43	46. 40							
15. 7	46. 10							
15. 22	47. 5							
16. 54	46. 30							
18. 28	48. 50							
	***							
19. 12	45. 0							
19. 45	45. 0							
20. 17	42. 20							
20. 47	43. 30							
21. 17	42. 0							
21. 50	44. 10							
22. 47	38. 0							
	***							
23. 48	45. 0							
	(†)							
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
	(†)	0. 0	·1100	0. 0	·00798	1. 40	59 ·6	61 ·2
0. 43	21. 44. 30	1. 42	·1104	0. 15	·00763	3. 40	61 ·7	64 ·4
1. 8	46. 30	2. 2	·1099	1. 43	·00521	9. 46	62 ·5	65 ·4
	***	2. 37	·1102	2. 4	·00489	22. 40	57 ·7	60 ·2
1. 27	45. 5	3. 0	·1096	3. 0	·00236			
1. 52	45. 30	4. 5	·1097		·00290			
2. 13	41. 15	4. 16	·1103	7. 26	·00316			
2. 44	42. 50		***	11. 5	·00277			
3. 15	35. 30	7. 13	·1101	14. 20	·00534			
	***	8. 7	·1108	18. 7	·00968			
4. 54	31. 50	8. 45	·1104	19. 49	·01100			
5. 14	28. 40	9. 13	·1102	23. 5	·01084			
5. 46	31. 0	9. 47	·1108	23. 59	·01082			
6. 26	28. 30	10. 25	·1106					
8. 0	31. 30	10. 49	·1113					
8. 54	34. 30	11. 14	·1110					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Horizontal Force.	Göttingen Mean Solar Time.	Vertical Force.	Göttingen Mean Solar Time.	Reading of Thermometers. Of H. F. Magnet	Reading of Thermometers. Of V. F. Magnet
Oct. 10		Oct. 10					
h m	° ′ ″	h m			h m	°	°
10. 13	21. 35. 0	13. 33	·1112				
10. 22	36. 30						
10. 40	35. 0	14. 30	·1118				
11. 56	38. 20						
12. 28	37. 50	14. 54	·1117				
12. 53	38. 30						
13. 15	39. 30	19. 0	·1126				
17. 55	43. 50	23. 59	·1115				
20. 0	42. 50						
20. 37	43. 30						
21. 13	45. 0						
21. 21	43. 30						
23. 15	43. 0						
23. 59	44. 0						
Oct. 11		Oct. 11		Oct. 11		Oct. 11	
0. 0	21. 44. 0	0. 0	·1116	0. 0	·01082	7. 10	62 ·0 62 ·3
		1. 6	·1112	3. 21	·01058	12. 40	61 ·0 63 ·5
1. 52	43. 30	1. 32	·1114	7. 35	·00928	13. 40	61 ·0 63 ·4
		2. 10	·1115	12. 10	·00594	14. 40	61 ·0 63 ·4
3. 41	46. 50	2. 22	·1118	18. 36	·00423	15. 40	61 ·9 63 ·5
5. 24	44. 20	2. 45	·1116			16. 40	62 ·1 63 ·7
9. 12	41. 40	3. 39	·1120	20. 48	·00337	17. 40	62 ·5 64 ·0
11. 30	43. 30	4. 7	·1117	23. 20	·00297	18. 40	62 ·8 64 ·2
12. 35	41. 20	4. 57	·1118		(†)	19. 40	62 ·5 64 ·0
13. 47	40. 30	5. 9	·1121			20. 40	63 ·0 65 ·0
14. 3	41. 50	5. 31	·1117			21. 40	63 ·5 65 ·0
15. 7	40. 50	5. 52:	·1120			22. 40	64 ·0 65 ·0
16. 14	41. 30	12. 0	·1119			23. 40	64 ·0 65 ·2
16. 30	42. 40	12. 24	·1124				
17. 42	41. 5	12. 40	·1119				
18. 17	41. 10	14. 15	·1116				
18. 48	43. 25	17. 7	·1120				
19. 53	41. 40	17. 39	·1116				
20. 39	42. 45	18. 26	·1118				
20. 48	41. 50	18. 44	·1116				
20. 59	42. 45	19. 10	·1120				
21. 12	41. 45	19. 24	·1117				
23. 13	43. 20	20. 12	·1114				
23. 59	45. 45	20. 39	·1119				
		21. 0	·1115				
		21. 7	·1118				
		21. 16	·1114				
		23. 59	·1092				
Oct. 12		Oct. 12		Oct. 12		Oct. 12	
0. 0	21. 45. 45	0. 23	·1096		(†)	0. 40	65 ·7 67 ·0
1. 30	45. 30	1. 22	·1096	0. 18	·00310	1. 40	66 ·3 67 ·4
2. 0	42. 20	1. 56	·1099	1. 23	·00385	2. 40	67 ·0 68 ·2
2. 45	44. 25	2. 15	·1097	6. 21	·00459	3. 40	68 ·0 69 ·3
3. 2	42. 0	2. 34	·1100		·00354	4. 40	68 ·5 69 ·7
3. 37	41. 40	3. 21	·1103	7. 54	·00468	5. 40	68 ·8 69 ·7
3. 44	42. 30	5. 0	·1096	11. 39	·00473	6. 40	69 ·0 70 ·2
4. 11	39. 30	5. 25	·1097	13. 20	·00638	7. 40	69 ·3 70 ·2
5. 12	39. 30	6. 11	·1098	17. 0	·00957	8. 40	69 ·2 70 ·2
		6. 27	·1096	21. 14	·01241	9. 40	68 ·8 70 ·2
6. 36	36. 50	7. 16	·1095	23. 59	·01286	10. 40	68 ·0 69 ·2

Göttingen Mean Solar Time.	Western Declination.	Horizontal Force.	Göttingen Mean Solar Time.	Vertical Force.	Göttingen Mean Solar Time.	Reading of Thermometers. Of H. F. Magnet	Reading of Thermometers. Of V. F. Magnet
Oct. 12		Oct. 12					
h m	° ′ ″	h m			h m	°	°
7. 40	21. 37. 20	8. 23	·1104				
8. 15	34. 30	12. 39	·1108				
8. 41	35. 45	13. 30	·1111				
9. 0	38. 40	15. 55	·1113				
10. 13	40. 10	16. 3	·1110				
10. 28	38. 40	17. 28	·1116				
11. 39	39. 50	17. 41	·1122				
11. 54	38. 40	21. 0	·1117				
16. 20	42. 30	22. 44	·1103				
17. 36	41. 20	23. 59	·1107				
20. 37	41. 35						
21. 28	35. 10						
22. 13	36. 0						
22. 27	35. 0						
23. 41	38. 0						
	(†)						
Oct. 13		Oct. 13		Oct. 13		Oct. 13	
	(†)	0. 0	·1117	0. 0	·01222	1. 40	65 ·5 67 ·3
0. 37	21. 37. 30	0. 52:	·1098	1. 0	·01143	3. 40	66 ·0 68 ·7
0. 47	36. 30	4. 51	·1097	1. 51	·01147	9. 40	65 ·0 67 ·8
1. 10	38. 15	7. 34	·1104	4. 54	·00604	21. 40	57 ·0 59 ·3
1. 19	36. 0	12. 30	·1111	6. 0	·00496		
1. 27	37. 30	12. 39	·1115	8. 0	·00400		
1. 42	38. 40	13. 30	·1114	8. 24	·00573		
2. 43	34. 15	19. 2	·1121	15. 36	·01214		
4. 51	38. 45	20. 37	·1127		·01274		
6. 0	36. 30	21. 53	·1120	19. 34	·01115		
9. 0	34. 40		(†)	23. 59	·01110		
15. 58	38. 30						
19. 3	38. 35						
19. 39	39. 30						
21. 36	37. 30						
21. 58	38. 35						
22. 25	36. 25						
23. 59	39. 0						
Oct. 14		Oct. 14		Oct. 14		Oct. 14	
0. 0	21. 39. 0		(†)	0. 0	·01110	1. 40	60 ·7 62 ·2
1. 25	38. 50	1. 40	·1135	0. 39	·01083	3. 40	63 ·7 65 ·8
1. 58	39. 30		(†)	2. 50	·00784	9. 40	65 ·0 66 ·6
2. 21	34. 30	2. 24	·1109	4. 22	·00349	21. 40	59 ·6 62 ·0
2. 40	32. 20	5. 0	·1108		·00411		
3. 27	20. 15	7. 41	·1108	7. 30	·00548		
3. 36	30. 50	8. 7	·1112	8. 53	·00563		
3. 45	30. 0	8. 47	·1109	10. 50	·00320		
3. 55	34. 30	9. 8	·1112	13. 45	·00654		
4. 21	31. 0	9. 45	·1111	18. 10	·00875		
4. 41	31. 55	10. 3	·1115	22. 19	·01141		
9. 5	30. 30	10. 13	·1113	23. 59	·01156		
9. 56	32. 40	13. 34	·1117				
11. 43	33. 40	13. 48	·1121				
14. 0	37. 10	20. 37	·1129				
		21. 30	·1128				

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol [illegible] denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 14		Oct. 14						
h m	° ′ ″	h m		h m		h m	°	°
19. 22	21. 37. 55	22. 0	·1124					
19. 37	37. 10	22. 44	·1124					
21. 21	36. 30	23. 59	·1115					
	***							
23. 30	38. 30							
23. 59	38. 20							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 0	21. 38. 20	0. 0	·1115	0. 0	·01136	1. 40	61 ·0	63 ·3
0. 23	41. 20	0. 17	·1114	1. 0	·01128	3. 40	62 ·0	64 ·4
1. 21	39. 40	0. 37	·1122	1. 20	·01119	9. 40	64 ·2	66 ·2
1. 47	39. 15	2. 25	·1109	3. 23	·00992	21. 46	61 ·2	63 ·3
2. 45	41. 30	3. 11	·1107	6. 45	·00681			
3. 4	37. 10	4. 44	·1105	10. 37	·00369			
3. 24	36. 30	5. 23	·1107	12. 5	·00314			
3. 39	36. 50	5. 48	·1105	14. 0	·00278			
3. 54	34. 50	6. 52	·1105	15. 24	·00419			
5. 15	33. 0	7. 4	·1097	21. 45	·00600			
6. 21	33. 0	7. 30	·1095	23. 59	·00653			
6. 43	34. 10	7. 36	·1098					
6. 53	32. 20	8. 12	·1097					
7. 21	30. 50	8. 33	·1103					
7. 30	32. 45	8. 45	·1100					
7. 46	29. 0	9. 8	·1105					
7. 59	32. 20	9. 22	·1101					
8. 30	29. 15	9. 45	·1105					
8. 45	27. 20	9. 53	·1103					
	***	10. 9	·1107					
9. 11	28. 30	11. 45	·1112					
9. 27	28. 50	12. 19	·1110					
9. 43	33. 40	12. 37	·1112					
10. 6	32. 20	12. 47	·1110					
12. 45	34. 55	14. 2	·1118					
13. 6	36. 45	14. 30	·1115					
	***		***					
13. 35	35. 40	19. 18	·1118					
15. 30	38. 35	20. 8	·1115					
15. 45	38. 0	21. 41	·1117					
	***	22. 30	·1110					
19. 29	37. 20	23. 59	·1104					
	***							
20. 13	38. 20							
	***							
20. 48	37. 0							
23. 59	37. 50							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 0	21. 38. 0	0. 0	·1104	0. 0	·00648	1. 40	62 ·2	64 ·6
0. 16	40. 10	0. 9	·1102	0. 27	·00658	3. 40	64 ·0	66 ·3
0. 56	41. 10	0. 56	·1109	1. 53	·00654	9. 40	65 ·5	67 ·0
1. 11	40. 30	1. 17	·1104	4. 5	·00344	21. 40	60 ·0	62 ·5
	***	1. 42	·1107		·00422			
1. 44	42. 30	2. 0	·1108	4. 53	·00406			
2. 0	41. 0	3. 3	·1110	5. 54	·00439			
2. 30	41. 50	4. 37	·1105	9. 16	·00353			
2. 40	40. 25	7. 8	·1109	11. 18	·00421			
2. 56	41. 10	7. 29	·1113	14. 8	·00675			
3. 24	40. 10	7. 47	·1109	18. 0	·01133			
5. 2	35. 30	10. 45	·1110	18. 39	·01182			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 16		Oct. 16		Oct. 16				
h m	° ′ ″	h m		h m		h m	°	°
6. 13	21. 35. 30	11. 13	·1116	19. 48	·01162			
9. 21	34. 50	11. 44	·1115	20. 15	·01185			
	***	16. 24	·1128		·00743			
11. 39	37. 30		***	21. 16	·00805			
15. 10	40. 15	19. 37	·1128		·00691			
16. 52	39. 0		***	22. 35	·00765			
17. 15	39. 30	23. 50	·1108	23. 54	·00732			
17. 44	38. 25		(†)		(†)			
20. 15	37. 40							
20. 35	38. 20							
21. 3	36. 50							
21. 27	37. 45							
21. 45	35. 0							
22. 33	35. 30							
22. 56	37. 30							
	(†)							
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
	(†)		(†)		(†)	1. 40	63 ·4	65 ·2
0. 10	21. 36. 20	0. 9	·1106	0. 14	·00679	3. 40	65 ·5	67 ·0
0. 32	37. 15	0. 59	·1111	1. 42	·00542	9. 40	66 ·0	67 ·0
0. 40	36. 0	1. 4	·1105		·00594	23. 0	61 ·0	63 ·0
	***	1. 45	·1108	3. 22	·00312			
0. 59	36. 50	2. 19	·1110	4. 26	·00381			
1. 11	35. 10	2. 25	·1117		·00461			
1. 22	35. 30	2. 34	·1104	4. 56	·00394			
1. 36	34. 30	3. 11	·1101	6. 0	·00367			
2. 27	34. 55	3. 21	·1090	7. 27	·00394			
2. 36	36. 40	3. 27	·1094	9. 2	·00349			
2. 45	33. 30	3. 38	·1088	9. 16	·00319			
	***	3. 55	·1099	13. 21	·00415			
4. 17	37. 20	4. 7	·1100	15. 45	·00644			
	***	4. 19	·1105	16. 30	·00669			
4. 43	39. 30	4. 39	·1100	19. 4	·00914			
	***	4. 45	·1103	23. 19	·01103			
5. 0	36. 0	4. 55	·1092	23. 59	·01078			
	***	5. 13	·1098					
5. 24	35. 15	5. 32	·1092					
	***	5. 40	·1100					
5. 39	37. 30	6. 0	·1097					
	***	6. 9	·1108					
5. 46	37. 0	6. 44	·1092					
	***	6. 57	·1096					
5. 57	38. 20	7. 6	·1087					
6. 15	35. 0	7. 24	·1092					
	***	7. 40	·1111					
6. 39	39. 0	7. 51	·1101					
	***	8. 12	·1091					
6. 59	37. 0	8. 43	·1095					
7. 10	38. 35	8. 54	·1127					
7. 45	29. 30	9. 9	·1105					
	***	10. 6	·1100					
8. 26	35. 0	10. 32	·1111					
9. 5	23. 30	10. 38	·1104					
9. 13	24. 20	10. 50	·1106					
9. 35	22. 50	11. 8	·1104					
10. 6	29. 30	11. 23	·1099					
10. 13	29. 10	11. 30	·1105					
10. 24	31. 0	12. 9	·1111					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 17		Oct. 17						
h m	° ′ ″	h m		h m		h m		
11. 11	21. 25. 45	12. 39	·1108					
12. 14	34. 30	13. 36	·1111					
12. 39	34. 40	13. 47	·1109					
12. 44	36. 0	14. 48	·1117					
13. 0	35. 0	15. 7	·1116					
13. 20	38. 20	15. 30	·1117					
13. 41	36. 20	15. 39	·1115					
14. 4	35. 30	17. 0	·1124					
14. 30	40. 40	17. 54	·1112					
14. 58	38. 10	18. 54	·1123					
15. 40	37. 0	19. 8	·1117					
16. 16	42. 40	19. 39	·1122					
17. 10	38. 20	20. 15	·1115					
	***	20. 50	·1114					
20. 24	37. 50	21. 24	·1106					
	***	22. 3	·1105					
20. 53	39. 10	23. 0	·1108					
	***	23. 40	·1106					
21. 12	38. 30		(†)					
	***							
21. 37	40. 0							
	***							
22. 15	39. 40							
	***							
22. 56	41. 45							
23. 43	42. 25							
	(†)							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
9. 0	21. 30. 45*	9. 0	·1119*	0. 0	·01066	9. 0	61 ·0	63 ·2
21. 40	32. 22*	21. 40	·1102*	1. 19	·01020	12. 40	60 ·4	62 ·0
				2. 51	·01129	13. 40	60 ·2	61 ·8
				3. 14	·01180	14. 40	60 ·1	61 ·7
				6. 23	·01114	15. 40	60 ·2	61 ·9
				7. 0	·01123	16. 40	60 ·8	62 ·3
				10. 15	·01094	17. 40	61 ·3	62 ·3
				13. 10	·01017	18. 40	61 ·6	62 ·5
				15. 34	·01096	19. 40	62 ·0	63 ·2
				19. 0	·01037	20. 40	62 ·4	63 ·3
				23. 59	·00777	21. 40	62 ·4	63 ·0
						22. 40	62 ·6	63 ·7
						23. 40	62 ·9	64 ·1
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
	(†)		(†)	0. 0	·00775	0. 40	60 ·5	62 ·5
0. 53	21. 41. 30	1. 6	·1097	0. 51	·00712	1. 40	63 ·2	64 ·8
1. 18	42. 40	1. 48	·1097	2. 33	·00540	2. 40	64 ·0	65 ·0
2. 0	38. 50	2. 24	·1092		·00634	3. 40	64 ·7	66 ·2
2. 15	38. 45		***	4. 30	·00415	4. 40	65 ·5	67 ·0
2. 40	35. 10	4. 0	·1101	9. 37	·00259	5. 40	66 ·4	67 ·0
2. 59	36. 50	4. 15	·1091	11. 45	·00338	6. 40	66 ·5	67 ·3
3. 13	34. 30	4. 23	·1092	14. 55	·00540	7. 40	66 ·5	67 ·4
	***	4. 36	·1085	18. 0	·00816	8. 40	66 ·0	67 ·3
3. 41	37. 50	5. 0	·1086	19. 54	·01002	9. 40	65 ·0	66 ·5
	***	5. 27	·1093	20. 52	·01070	10. 40	67 ·0	67 ·4
4. 0	34. 15	5. 55	·1094	21. 40	·01039	11. 40	67 ·0	67 ·6
4. 44	31. 30	6. 9	·1098	23. 59	·01098	21. 40	59 ·0	61 ·2
4. 54	33. 0	8. 15	·1099					
5. 8	31. 30	8. 38	·1093					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 19		Oct. 19						
h m	° ′ ″	h m		h m		h m		
5. 35	21. 29. 30	9. 39	·1093					
6. 0	31. 30	10. 16	·1097					
6. 33	29. 10	10. 24	·1102					
6. 49	29. 50	10. 35	·1101					
7. 14	29. 0	11. 23	·1108					
	***	11. 44	·1104					
8. 10	28. 50	12. 8	·1103					
8. 32	25. 10	12. 32	·1109					
8. 56	26. 10	13. 10	·1106					
9. 41	25. 15	13. 38	·1109					
10. 11	26. 50	14. 26	·1108					
10. 22	29. 30	16. 53	·1117					
11. 0	29. 0	17. 21	·1116					
11. 10	29. 50	17. 54	·1122					
11. 27	29. 0	18. 53	·1119					
11. 43	29. 55	19. 23	·1120					
	***	19. 45	·1118					
16. 27	36. 20	20. 29	·1113					
17. 4	37. 40	20. 53	·1114					
17. 28	36. 30	21. 39	·1106					
	***	22. 0	·1108					
18. 57	35. 10	22. 34	·1102					
	***	23. 7	·1106					
19. 32	36. 0	23. 13	·1103					
	***	23. 59	·1104					
20. 12	35. 0							
	***							
21. 24	39. 50							
22. 14	39. 0							
22. 40	40. 30							
22. 58	39. 30							
23. 12	40. 30							
	***							
23. 16	40. 0							
	***							
23. 48	42. 0							
	(†)							
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
	(†)	0. 0	·1104	0. 0	·01098	1. 40	60 ·8	62 ·6
0. 56	21. 41. 0	1. 37	·1106	1. 7	·01079	3. 40	62 ·3	65 ·2
1. 13	42. 30	2. 15	·1097	2. 45	·00996	9. 40	62 ·6	65 ·3
1. 30	41. 50	2. 43	·1102	5. 24	·00500	21. 40	60 ·2	63 ·0
1. 53	39. 50	3. 0	·1101	6. 52	·00288			
2. 24	39. 50	4. 14	·1107		·00323			
	***	5. 0	·1100	9. 12	·00305			
2. 53	38. 20	5. 28	·1108	10. 25	·00280			
3. 13	38. 50	5. 49	·1104	14. 21	·00304			
	***	6. 17	·1108	20. 54	·00591			
4. 10	37. 20	9. 0	·1111	21. 43	·00598			
4. 13	38. 50	9. 16	·1111	23. 59	·00760			
4. 42	34. 50	9. 42	·1118					
	***	10. 0	·1115					
5. 45	34. 0	10. 9	·1121					
6. 0	35. 0	10. 48	·1114					
	***	12. 50	·1113					
7. 30	35. 5	12. 54	·1116					
8. 25	36. 0	13. 7:	·1114					
9. 25	32. 50	20. 0	·1120					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

October 18. The Photographic Traces of the Declination and Horizontal Force were too faint to be used with any degree of certainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 20		Oct. 20						
h m	° ′ ″	h m		h m		h m	°	°
9. 51	21. 36. 30	22. 0	·1111					
10. 13	35. 50	23. 4	·1105					
12. 30	38. 15	23. 59	·1104					
12. 40	39. 50							
12. 54	38. 40							
	***							
15. 30	38. 35							
	***							
17. 52	38. 50							
20. 35	36. 45							
21. 42	37. 30							
23. 1	42. 50							
	***							
23. 32	42. 20							
23. 59	43. 0							
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 0	21. 43. 0	0. 0	·1104	0. 0	·00758	1. 40	61·0	63·1
0. 13	44. 20		***	1. 0	·00820	3. 40	61·0	63·6
1. 39	42. 30	2. 39	·1108	2. 30	·00800	9. 45	63·1	64·4
1. 52	42. 40	3. 38	·1094	4. 7	·00784	21. 40	56·7	58·6
2. 14	46. 15	3. 52	·1099	8. 30	·00556			
2. 30	44. 30	4. 0	·1096	10. 55	·00529			
3. 55	39. 40	4. 30	·1105	12. 5	·00551			
4. 22	37. 20	4. 52	·1105	19. 0	·01064			
4. 51	39. 0	5. 30	·1111	19. 39	·01049			
	***	9. 9	·1111	23. 59	·01019			
6. 20	37. 30	9. 24	·1109					
8. 8	37. 50	9. 43	·1113					
8. 21	35. 30	9. 48	·1108					
8. 45	33. 50	10. 22	·1111					
9. 0	34. 45	10. 26	·1109					
9. 13	33. 55	11. 19	·1114					
11. 14	36. 20	11. 33	·1113					
11. 38	37. 45	11. 51	·1114					
12. 12	39. 20	12. 6	·1121					
13. 29	38. 45	16. 10	·1124					
13. 51	39. 30	16. 31	·1122					
16. 10	39. 0	17. 8	·1126					
16. 31	40. 40	18. 45	·1126					
20. 27	36. 30	22. 3	·1112					
22. 45	42. 10	23. 23	·1117					
23. 22	44. 10	23. 30	·1114					
23. 41	43. 30	23. 34	·1116					
23. 59	44. 30	23. 49	·1109					
		23. 59	·1116					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 0	21. 44. 0	0. 0	·1116	0. 0	·01019	1. 40	55·6	57·3
1. 5	44. 0	1. 41	·1118	1. 23	·00996	3. 40	56·3	58·0
1. 37	44. 30	1. 53	·1109	5. 0	·01054	9. 40	56·2	58·2
1. 52	42. 50	3. 47	·1114	7. 11	·01057	21. 45	55·0	57·0
2. 12	42. 55	4. 4	·1112	10. 0	·01055			
3. 13	40. 50	7. 28	·1125	13. 45	·00994			
3. 42	40. 30	8. 15	·1121	16. 22	·01043			
4. 51	39. 5	8. 40	·1126		·00995			
7. 22	39. 30	9. 4	·1123	21. 50	·01021			
8. 15	38. 10	9. 34	·1124	23. 59	·01010			
8. 29	38. 30	9. 51	·1130					

Göttingen Mean Solar Time.	Western Declination	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 22		Oct. 22						
h m	° ′ ″	h m		h m		h m	°	°
8. 55	21. 36. 50	10. 54	·1126					
10. 0	38. 50	11. 19	·1129					
10. 24	37. 30	12. 30	·1127					
13. 4	38. 50	16. 18	·1132					
13. 31	40. 40	17. 49	·1136					
20. 28	38. 30	18. 37	·1135					
20. 43	39. 30	19. 45	·1129					
21. 18	38. 30	20. 29	·1122					
	***	20. 39	·1121					
22. 36	40. 0	22. 54	·1111					
23. 15	38. 55	23. 27	·1113					
23. 41	43. 30	23. 59	·1112					
23. 59	45. 30							
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 0	21. 45. 30	0. 0	·1112	0. 0	·01010	1. 40	56·3	57·7
	***	0. 39	·1109	1. 15	·00997	3. 40	58·5	59·3
0. 27	43. 30	0. 50	·1115	2. 52	·00936	9. 40	60·2	61·3
1. 37	45. 30	1. 37	·1119	4. 5	·00774	21. 40	57·0	58·5
2. 44	38. 50	2. 44	·1099	7. 54	·00145			
3. 14	39. 50	3. 21	·1108		·00183			
4. 40	31. 20	4. 30	·1102	11. 37	·00143			
5. 44	33. 5	6. 14	·1113	15. 19	·00253			
8. 10	34. 40	6. 49	·1112	16. 51	·00296			
9. 44	34. 30	7. 11	·1116	18. 35	·00420			
10. 10	35. 30	7. 57	·1118	20. 23	·00503			
10. 59	33. 45	8. 9	·1114	23. 59	·00500			
11. 12	34. 55		***					
11. 27	34. 0	8. 30	·1119					
11. 42	34. 55		***					
12. 12	29. 30	10. 3	·1114					
12. 46	32. 30	10. 8	·1110					
13. 15	32. 15	10. 20	·1113					
14. 12	35. 50	10. 23	·1107					
14. 43	34. 0	10. 37	·1109					
15. 16	37. 30	11. 8	·1106					
15. 31	37. 30	11. 16	·1122					
15. 45	40. 0	11. 35	·1105					
15. 54	39. 30	11. 44	·1105					
16. 11	42. 30	12. 3	·1116					
16. 30	36. 5	12. 24	·1112					
17. 14	32. 30	13. 6	·1114					
17. 59	37. 50	13. 21	·1109					
	***	14. 22	·1115					
19. 12	37. 20	14. 48	·1112					
19. 42	39. 50	15. 9	·1117					
	***	15. 27	·1118					
20. 26	37. 30	15. 39	·1112					
20. 35	38. 40	15. 52	·1116					
	***	16. 0	·1113					
20. 59	38. 25	16. 17	·1118					
21. 8	40. 0	16. 27	·1128					
	***	16. 40	·1121					
21. 43	38. 20	16. 54	·1127					
22. 30	33. 30	18. 11	·1117					
23. 0	37. 30	18. 37	·1126					
23. 14	35. 50	19. 12	·1119					
23. 38	36. 10	19. 40	·1117					
23. 59	37. 50	19. 47	·1122					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 23 h m		h m		h m	°	°
		20. 8	·1120					
		21. 36	·1128					
		22. 45	·1109					
		23. 1	·1116					
		23. 9	·1109					
		23. 59	·1110					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 0	21. 37. 50	0. 0	·1110	0. 0	·00496	1. 40	60 ·0	61 ·0
1. 0	38. 0	1. 6	·1116	0. 58	·00456	3. 40	62 ·0	63 ·4
1. 25	37. 10	2. 19	·1097	2. 5	·00323	9. 40	64 ·0	64 ·5
1. 37	35. 30	2. 29	·1101	2. 37	{·00224	23. 1	60 ·0	61 ·3
1. 42	37. 45	2. 35	·1097		{·00276			
2. 19	35. 0		***	4. 20	·00335			
2. 28	36. 0	6. 32	·1114	5. 8	·00310			
2. 43	33. 30	7. 0	·1100	10. 52	·00302			
	***	7. 36	·1112	11. 22	·00232			
3. 52	34. 30	8. 10	·1107	12. 19	·00219			
4. 22	33. 10	8. 19	·1112	13. 23	·00221			
	***	9. 5	·1099	17. 49	·00530			
6. 43	34. 50	9. 23	·1105	21. 19	·00674			
7. 13	29. 0	10. 0	·1094	23. 20	·00685			
8. 5	34. 5	10. 42	·1104	23. 59	·00680			
8. 27	32. 45	10. 57	·1122					
8. 58	32. 50	11. 25	·1099					
9. 21	29. 50	11. 52	·1124					
9. 31	30. 5	12. 16	·1116					
10. 3	28. 50	12. 58	·1137					
10. 39	35. 30	13. 28	·1118					
10. 53	33. 55	13. 49	·1123					
11. 12	39. 30	14. 48	·1107					
11. 39	34. 0	15. 12	·1115					
11. 57	35. 55	15. 32	·1109					
12. 15	34. 50	16. 0	·1113					
12. 28	36. 50	16. 21	·1109					
12. 40	36. 20	17. 15	·1118					
12. 58	37. 30	17. 34	·1124					
13. 18	35. 0	18. 7	·1128					
14. 7	33. 30	18. 10	·1122					
14. 44	39. 30	18. 26	·1129					
15. 24	37. 5	18. 54	·1129					
16. 0	38. 20	19. 13	·1120					
16. 26	40. 30	20. 11	·1119					
16. 51	41. 15	20. 46	·1124					
17. 18	38. 30		***					
	***	22. 55	·1121					
17. 58	38. 30		***					
18. 14	37. 0	23. 7	·1117					
	***	23. 59	·1110					
19. 42	39. 10							
	***							
21. 43	38. 40							
	***							
22. 30	40. 0							
23. 7	38. 30							
23. 42	31. 20							
23. 52	37. 0							
23. 59	35. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 34. 30	0. 0	·1110	0. 0	·00680	7. 13	62 ·7	64 ·0
0. 15	30. 40	0. 17	·1103	1. 37	·00673	12. 40	60 ·3	62 ·2
0. 30	36. 30	0. 32	·1110	7. 27	{·00234	13. 40	60 ·2	61 ·8
0. 51	33. 50	0. 51	·1103		{·00276	14. 40	60 ·2	61 ·5
1. 3	37. 15	1. 5	·1107	9. 54	·00248	15. 40	60 ·0	61 ·5
1. 24	35. 30	1. 17	·1101	12. 9	·00342	16. 40	60 ·2	61 ·3
3. 0	37. 10	2. 40	·1108	15. 35	·00583	17. 40	60 ·2	61 ·4
5. 24	36. 50	11. 0	·1120	17. 20	·00658	18. 40	60 ·1	61 ·2
6. 43	33. 0	11. 9	·1124	20. 30	·00764	19. 40	60 ·2	61 ·2
11. 0	32. 30	11. 47	·1125	23. 26	·00732	20. 40	60 ·0	61 ·2
11. 24	28. 5	12. 8	·1114	23. 59	·00720	21. 40	59 ·7	60 ·3
11. 33	29. 30	13. 37	·1109			22. 40	59 ·5	60 ·4
11. 58	29. 30	17. 7	·1113			23. 40	60 ·0	61 ·2
12. 31	31. 30	17. 49	·1108					
13. 0	30. 0	18. 15	·1113					
13. 37	31. 35	18. 39	·1105					
14. 5	30. 45	19. 32	·1104					
14. 27	31. 40	20. 4	·1113					
	***		***					
19. 36	31. 36	22. 29	·1110					
	***		***					
20. 7	32. 50	22. 44	·1100					
	***	23. 2	·1103					
20. 59	31. 0		(†)					
	***							
22. 54	37. 0							
23. 59	35. 0							
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 0	21. 35. 0	0. 0	·1093	0. 0	·00719	0. 40	61 ·0	61 ·9
	***	0. 43	·1097	0. 53	·00654	1. 40	62 ·0	63 ·2
2. 10	36. 0	1. 0	·1095	1. 40	·00556	2. 40	63 ·0	64 ·3
	***	1. 23	·1096	2. 50	·00300	3. 40	64 ·2	65 ·2
5. 59	31. 20	1. 29	·1091	3. 36	·00277	4. 40	65 ·0	66 ·0
	***	2. 14	·1094	5. 19	{·00364	5. 40	65 ·6	66 ·5
8. 40	31. 50	3. 40	·1093		{·00640	6. 40	65 ·5	66 ·7
9. 27	29. 15	5. 39	·1093	6. 0	·00597	7. 40	66 ·0	67 ·0
10. 15	31. 30	6. 3	·1097	10. 0	·00734	8. 40	65 ·9	66 ·6
10. 51	27. 50	7. 0	·1095	12. 37	·00805	9. 40	65 ·8	66 ·6
11. 13	29. 35	8. 34	·1098	14. 10	·00881	10. 40	65 ·6	67 ·0
11. 45	29. 30	9. 22	·1094	17. 51	·01153	11. 40	65 ·0	67 ·0
	***	9. 43	·1099	18. 30	·01141	21. 40	59 ·8	61 ·4
13. 12	32. 30	9. 58	·1098	21. 46	{·01140			
19. 13	32. 55	10. 9	·1104		{·00996			
21. 30	31. 15	10. 23	·1099	23. 37	·01034			
23. 59	33. 20	11. 36	·1096	23. 59	·01020			
		19. 0	·1118					
		20. 39	·1118					
		21. 48	·1111					
		22. 23	·1104					
		23. 59	·1096					
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 0	21. 33. 20	0. 0	·1096	0. 0	·01020	1. 40	61 ·0	63 ·0
1. 45:	36. 10	1. 35	·1093	1. 21	·01009	3. 40	62 ·0	64 ·4
4. 40:	32. 25	1. 55	·1097	2. 39	·00935	9. 40	62 ·0	64 ·3
21. 0	32. 30	2. 13	·1094	4. 30	·00670	21. 45	57 ·2	60 ·0
23. 29	37. 20	2. 40	·1103	5. 54	·00505			
	(†)	3. 0	·1098	8. 0	·00358			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.
h m	° ′ ″
Oct. 28	
0. 0	21. 35. 50
0. 58	37. 20
	***
3. 51	33. 20
	***
6. 54	32. 55
7. 14	31. 30
7. 40	33. 20
19. 0	33. 30
19. 18	33. 0
19. 48	33. 50
20. 21	32. 10
20. 45	31. 10
21. 43	32. 30
22. 26	33. 50
22. 50	36. 30
23. 59	38. 20
Oct. 29	
0. 0	21. 38. 20
0. 24	40. 30
1. 12	39. 30
	***
1. 51	41. 0
2. 10	39. 30
2. 51	39. 0
	***
3. 15	39. 40
3. 47	37. 30
4. 14	39. 30
4. 54	40. 40
5. 37	35. 10
6. 43	36. 40
7. 15	28. 25
	***
8. 8	27. 30
8. 36	31. 50
9. 0	30. 30
9. 37	25. 15
10. 0	19. 30
10. 37	23. 50
11. 36	28. 25
11. 45	27. 30
12. 45	32. 40
13. 14	32. 45
13. 44	34. 50
14. 9	33. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 27	
h m	
8. 51	·1111
19. 0	·1117
19. 5	·1135
19. 27	·1141
21. 26	·1138
22. 30	·1126
23. 18	·1122
	(†)
Oct. 28	
0. 0	·1118
0. 24	·1120
	***
1. 24	·1138
2. 38	·1116
3. 15	·1120
3. 30	·1115
5. 39	·1126
5. 54	·1122
6. 39	·1128
7. 3	·1126
9. 52	·1139
14. 0	·1143
17. 30	·1152
19. 32	·1151
21. 23	·1155
22. 0	·1146
23. 59	·1128
Oct. 29	
0. 0	·1128
0. 9	·1113
2. 15	·1107
3. 3	·1120
3. 14	·1114
3. 34	·1113
3. 44	·1108
4. 7	·1118
4. 20	·1112
4. 39	·1110
4. 47	·1113
5. 0	·1110
5. 50	·1120
5. 58	·1111
6. 43	·1118
7. 6	·1106
7. 21	·1116
7. 53	·1112
8. 9	·1117
8. 30	·1116
9. 5	·1121
9. 26	·1136
9. 41	·1131
9. 55	·1133
11. 0	·1117
11. 15	·1119
11. 38	·1130
12. 14	·1129

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 27	
h m	
9. 25	·00320
14. 10	·00414
16. 55	·00585
18. 0	·00658
19. 53	·00798
21. 10	·00898
23. 59	·01056
Oct. 28	
0. 0	·01060
0. 15	·01069
1. 49	·01037
2. 56	·00935
5. 6	·00521
6. 15	·00409
7. 37	·00341
8. 30	·00340
16. 57	·01022
	·01000
23. 59	·01001
Oct. 29	
0. 0	·01000
1. 0	·00976
2. 37	·00794
5. 4	·00392
6. 53	·00340
7. 20	·00364
7. 51	·00362
10. 45	·00480
12. 4	·00576
17. 1	·01001
	·00963
22. 0	·00984
23. 59	·00949

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Oct. 28		
1. 40	59 ·7	61 ·7
3. 40	62 ·0	63 ·8
9. 40	59 ·2	62 ·2
21. 40	53 ·5	57 ·3
Oct. 29		
1. 40	57 ·0	59 ·4
3. 40	59 ·0	61 ·4
9. 40	57 ·0	57 ·3
21. 40	54 ·0	56 ·0

Göttingen Mean Solar Time.	Western Declination.
Oct. 29	
h m	° ′ ″
14. 32	21. 33. 30
	***
16. 9	32. 30
	***
16. 29	34. 30
16. 44	32. 30
17. 44	33. 30
18. 12	36. 30
	***
19. 12	34. 20
20. 0	37. 55
20. 51	34. 50
	***
23. 6	38. 50
23. 59	42. 15
Oct. 30	
0. 0	21. 42. 15
1. 0	41. 20
1. 14	41. 35
1. 43	40. 30
2. 0	43. 30
3. 36	38. 10
5. 24	35. 0
6. 2	30. 30
6. 27	30. 30
7. 52	34. 0
9. 7	30. 50
9. 36	33. 30
10. 12	16. 40
	***
11. 31	25. 30
13. 12	34. 10
13. 49	35. 30
14. 11	34. 45
	***
16. 0	38. 30
	***
17. 44	36. 0
	***
19. 31	36. 0
	***
21. 25	32. 30
	***
23. 59	40. 45

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 29	
h m	
13. 22	·1132
13. 39	·1141
14. 18	·1138
14. 37	·1141
15. 27	·1139
15. 54	·1144
16. 6	·1141
16. 13	·1149
16. 37	·1146
16. 49	·1153
17. 7	·1151
17. 24	·1154
18. 22	·1144
19. 0	·1147
19. 41	·1136
20. 9	·1145
20. 30	·1148
21. 54	·1141
22. 15	·1136
22. 24	·1129
23. 12	·1113
23. 59	·1111
Oct. 30	
0. 0	·1111
0. 7	·1111
1. 38	·1094
	***
2. 10	·1108
	***
2. 45	·1096
	***
3. 19	·1102
	***
5. 30	·1109
5. 43	·1104
5. 50	·1107
5. 56	·1103
6. 24	·1114
	***
8. 13	·1115
8. 26	·1121
8. 45	·1120
9. 15	·1127
	***
9. 53	·1129
	***
10. 0	·1139
11. 30	·1132
11. 46	·1130
12. 22	·1133
12. 45	·1132
13. 3	·1136
13. 23	·1135
13. 43	·1139
16. 2	·1136
17. 49	·1143
20. 14	·1146
22. 15	·1143

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 30	
h m	
0. 0	·00940
1. 0	·00888
2. 12	·00790
3. 0	·00662
5. 10	·00192
	·00236
10. 0	·00165
11. 23	·00225
17. 7	·00982
22. 15	·00989
23. 59	·01028

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Oct. 30		
1. 40	57 ·0	58 ·0
3. 40	59 ·0	60 ·8
9. 40	58 ·6	60 ·0
21. 40	49 ·5	52 ·8

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 30 h m		h m		h m	°	°
		23. 38	·1124					
		23. 59	·1124					
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 0	21. 40. 45	0. 0	·1124	0. 0	·01030	1. 40	54 ·0	56 ·0
0. 24	39. 30	1. 34	·1115	0. 15	·01042	3. 40	59 ·0	57 ·5
1. 44:	40. 40	2. 30	·1118	1. 7	·01018	9. 40	58 ·3	60 ·0
5. 11:	35. 0	2. 40	·1114	3. 0	·00695	22. 40	55 ·4	57 ·4
9. 22	34. 30	3. 37	·1121	4. 39	{·00266			
9. 52	29. 5	4. 0	·1116		{·00314			
10. 16	28. 50	4. 23	·1121	7. 5	·00294			
10. 53	34. 30	9. 28	·1130	10. 50	·00226			
11. 30	33. 20	9. 39	·1144	12. 35	·00260			
12. 58	35. 40	9. 52	·1142	17. 0	·00398			
14. 21	35. 0	10. 25	·1126	19. 10	·00429			
15. 16	36. 15	11. 11	·1135	23. 59	·00494			
15. 57	34. 30		***					
16. 55	35. 30	18. 30	·1148					
	***		***					
20. 28	33. 25	20. 6	·1143					
21. 55	36. 20		***					
23. 18	35. 30	23. 59	·1122					
23. 59	38. 50							
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 0	21. 38. 30	0. 0	·1122	0. 0	·00492	7. 10	55 ·5	58 ·7
0. 10	38. 5	1. 14	·1111	2. 7	·00471	12. 40	54 ·5	57 ·0
	***		***	4. 19	{·00254	13. 40	54 ·2	57 ·2
1. 36	42. 20	2. 30	·1112		{·00302	14. 40	54 ·4	57 ·5
6. 11	33. 30	3. 15	·1110	7. 0	·00237	15. 40	55 ·0	57 ·6
8. 12	32. 35	3. 26	·1115	14. 22	·00521	16. 40	55 ·7	57 ·9
8. 36	30. 0	4. 22	·1120	15. 0	·00516	17. 40	56 ·0	58 ·2
11. 25	35. 50	6. 15	·1123	16. 30	·00551	18. 40	59 ·0	58 ·6
11. 54	33. 10	9. 55	·1135	18. 19	·00496	19. 40	57 ·5	59 ·0
12. 29	35. 5	10. 33	·1137	22. 7	{·00224	20. 40	57 ·6	59 ·4
12. 45	34. 40	10. 42	·1144		{·00262	21. 40	58 ·0	60 ·0
13. 12	35. 50	10. 53	·1139	23. 59	·00260	22. 40	58 ·3	60 ·0
14. 1	34. 15	12. 15	·1144			23. 40	58 ·7	60 ·3
14. 30	44. 30	13. 14	·1139					
15. 25	36. 50	14. 56	·1142					
15. 43	34. 0	16. 10	·1147					
16. 14	32. 40	16. 31	·1140					
17. 12	34. 50	17. 36	·1144					
17. 45	33. 50	19. 2	·1140					
20. 39	33. 10	19. 30	·1142					
	***	21. 31	·1131					
22. 0	34. 55	23. 59	·1129					
22. 58	40. 0							
23. 32	40. 15							
23. 59	42. 25							
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
0. 0	21. 42. 25	0. 0	·1129	0. 0	·00268	0. 40	59 ·2	60 ·3
	***	1. 36	·1128	1. 30	·00320	1. 40	60 ·0	61 ·0
1. 44	42. 0		(†)	2. 19	·00374	2. 40	61 ·0	62 ·4
	(†)	3. 40	·1133*	3. 25	{·00381	3. 40	61 ·0	63 ·5
3. 40	37. 8*	9. 33	·1143		{·00644	4. 40	61 ·3	64 ·0
9. 40	32. 17*	9. 48	·1140	5. 30	{·00468	5. 40	61 ·5	63 ·6
9. 45	34. 30	10. 7	·1144		{·00780	6. 40	62 ·0	63 ·6

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
h m	° ′ ″	h m		h m		h m	°	°
10. 37	21. 32. 40	10. 20	·1143	6. 7	{·00754	7. 40	62 ·5	63 ·8
11. 42	34. 25	10. 38	·1148		{·01029	8. 40	62 ·8	64 ·0
12. 29	33. 30	11. 15	·1142	8. 30	·00937	9. 40	62 ·8	64 ·8
12. 55	31. 55	11. 56	·1143	9. 37	·00855	10. 40	62 ·8	64 ·8
13. 47	31. 55	12. 10	·1140	9. 49	·00896	11. 40	62 ·8	65 ·0
15. 0	36. 30	12. 34	·1144	10. 25	·00944	21. 40	60 ·8	60 ·8
15. 24	34. 30	13. 34	·1139	15. 35	·00935			
	***	15. 2	·1145		(†)			
15. 49	37. 0	15. 21	·1143	21. 42	·01073			
16. 12	33. 0	15. 40	·1147	22. 23	·01081			
	***	15. 47	·1146	22. 45	·01120			
16. 45	33. 15	16. 53	·1145	23. 59	·01094			
17. 12	38. 20	17. 15	·1151					
18. 40	32. 30	17. 32	·1151					
	***	17. 40	·1156					
19. 30	34. 30	18. 45	·1153					
	***	19. 0	·1157					
20. 12	34. 20	19. 39	·1149					
20. 25	32. 0	20. 5	·1157					
20. 33	34. 30	21. 0	·1142					
20. 44	32. 20	21. 46	·1157					
20. 58	35. 20	22. 22	·1149					
21. 22	33. 10	22. 31	·1145					
22. 7	34. 10	22. 37	·1146					
22. 27	37. 30	22. 55	·1134					
22. 37	37. 5	23. 19	·1122					
22. 52	41. 10	23. 31	·1128					
23. 30	37. 40	23. 59	·1114					
23. 59	29. 30							
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 0	21. 39. 25	0. 0	·1114	0. 0	·01090	1. 40	62 ·5	64 ·0
0. 8	38. 50	0. 52	·1126	1. 15	·00997	3. 40	64 ·0	66 ·0
	***	1. 8	·1132	2. 11	·00900	9. 40	64 ·3	66 ·0
0. 21	41. 0	2. 15	·1142	4. 50	·00484	21. 40	59 ·4	62 ·0
	***	2. 36	·1142	5. 30	·00465			
0. 54	40. 0	3. 11	·1131	6. 0	·00601			
1. 12	42. 20	4. 45	·1136	6. 54	{·00629			
2. 0	41. 10	5. 43	·1136		{·00781			
2. 45	41. 25	5. 52	·1132	9. 28	·00622			
5. 0:	36. 40	6. 12	·1132	10. 10	·00654			
8. 23	34. 10	6. 30	·1133	11. 15	·00653			
15. 24	34. 20	7. 39	·1132	11. 53	·00722			
	(†)	8. 7	·1136	19. 45	·01207			
21. 23	33. 30		***	23. 59	·01220			
	***	11. 0	·1134					
23. 59	41. 10	15. 17	·1139					
			(†)					
		21. 35	·1143					
		21. 57	·1136					
		22. 15	·1141					
		22. 56	·1131					
		23. 27	·1134					
		23. 36	·1137					
		23. 59	·1136					
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 0	21. 41. 10	0. 0	·1136	0. 0	·01220	1. 40	61 ·7	63 ·7
0. 19	40. 50		***	1. 0	·01255	3. 40	64 ·7	65 ·4

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 4	° ′ ″	Nov. 4		Nov. 4		Nov. 4	°	°
h m		h m		h m		h m		
1. 30	21. 41. 0	2. 0	·1131	1. 15	·01256	9. 40	64 ·0	66 ·5
2. 0	39. 50	3. 24	·1125	2. 36	·01140	21. 40	61 ·3	63 ·4
2. 47	39. 50	4. 2	·1132	4. 30	·00951			
4. 24	37. 30	4. 17	·1128	6. 24	·00699			
5. 6	37. 10	5. 0	·1132	7. 24	·00649			
5. 43	37. 50	5. 33	·1143	9. 0	·00541			
6. 13	39. 0	6. 37	·1120	10. 19	·00513			
6. 56	26. 0	6. 52	·1124	14. 0	·00617			
7. 42	36. 10	8. 26	·1130	20. 25	·00859			
7. 59	38. 20	8. 42	·1138	23. 59	·00905			
9. 9	32. 20	9. 25	·1131					
10. 12	33. 20	9. 54	·1143					
10. 32	30. 50	10. 15	·1138					
11. 41	33. 30	10. 26	·1141					
12. 14	33. 0	10. 42	·1141					
12. 30	33. 30	11. 0	·1135					
12. 49	32. 20	11. 28	·1137					
13. 43	33. 0	11. 39	·1133					
14. 57	33. 30	12. 17	·1134					
15. 34	37. 15	12. 30	·1141					
16. 9	34. 40	12. 37	·1136					
16. 52	37. 40	12. 49	·1134					
19. 12	33. 30	13. 52	·1145					
19. 30	34. 0	14. 15	·1142					
20. 13	32. 40	14. 23	·1145					
21. 4	34. 0	14. 39	·1137					
21. 42	38. 0	16. 38	·1142					
22. 0	37. 30	17. 0	·1141					
22. 15	39. 0	18. 6	·1145					
22. 45	39. 35	18. 47	·1143					
23. 18	38. 15	19. 38	·1146					
23. 59	40. 20	20. 0	·1143					
		21. 0	·1139					
		21. 37	·1134					
		22. 9	·1120					
		22. 43	·1126					
		23. 13	·1124					
		23. 59	·1126					
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 0	21. 40. 20	0. 0	·1126	0. 0	·00890	1. 40	63 ·0	65 ·0
0. 13	41. 30	0. 37	·1128	1. 30	·00854	3. 40	64 ·0	66 ·0
1. 27	40. 30	0. 52	·1125	2. 54	·00750	9. 40	63 ·3	66 ·0
1. 40	41. 50	4. 23	·1109	4. 17	·00601	21. 40	57 ·9	61 ·3
2. 15	39. 25	4. 52	·1135	4. 38	·00594			
2. 30	41. 0	5. 14	·1132	5. 32	·00504			
2. 44	40. 0	5. 33	·1137	6. 41	·00555			
3. 30	39. 50	5. 55	·1136	8. 45	·00553			
4. 7	38. 50	6. 15	·1129		·00801			
4. 32	34. 0	6. 29	·1129	14. 35	·00782			
4. 47	34. 30	6. 45	·1150	19. 23	·01234			
	***	6. 53	·1145	22. 40	·01216			
5. 13	32. 25	7. 2	·1146		·00804			
6. 2	37. 50	7. 10	·1143	23. 59	·00955			
6. 37	26. 40	7. 29	·1133					
6. 51	32. 0	7. 43	·1138					
7. 11	31. 50	8. 4	·1131					
7. 22	33. 10	8. 22	·1137					
7. 39	32. 50	10. 7	·1144					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 5	° ′ ″	Nov. 5		h m		h m	°	°
h m		h m						
7. 55	21. 34. 30	11. 32	·1142					
8. 14	33. 20	11. 40	·1150					
8. 28	34. 35	12. 18	·1145					
	***	12. 30	·1149					
10. 6	33. 50	13. 22	·1149					
10. 49	32. 30	13. 51	·1143					
10. 57	32. 45	20. 13	·1151					
11. 11	32. 20	21. 37	·1149					
12. 5	35. 0	23. 35	·1136					
12. 43	33. 0		(†)					
13. 0	34. 50							
13. 29	33. 10							
13. 53	34. 45							
14. 8	34. 30							
14. 18	35. 30							
	***							
18. 56	35. 50							
21. 13	34. 25							
	***							
23. 13	36. 20							
	(†)							
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
	(†)		(†)	1. 40	·00990*	1. 40	59 ·2	61 ·7
0. 19	21. 36. 5	0. 39	·1125	3. 40	·00822*	3. 40	61 ·0	63 ·3
1. 5	37. 5	2. 50	·1138	9. 40	·00615*	9. 45	61 ·9	64 ·4
2. 28	37. 30	3. 46	·1132	21. 40	·00604*	21. 40	58 ·5	61 ·2
4. 28	34. 45	7. 24	·1139					
7. 22	34. 25	7. 46	·1137					
7. 43	32. 45	8. 4	·1140					
8. 10	34. 0	14. 15	·1141					
12. 13	32. 40	16. 0	·1144					
18. 7	34. 30	19. 49	·1141					
20. 58	32. 30	22. 53	·1123					
23. 59	36. 30	23. 59	·1122					
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 0	21. 36. 30	0. 0	·1122	1. 40	·00934*	1. 40	59 ·0	59 ·7
0. 52	38. 20	0. 32	·1122	3. 40	·00886*	3. 40	60 ·0	60 ·0
4. 39	35. 50	0. 53	·1124	9. 40	·00855*	9. 40	58 ·0	58 ·7
14. 12	34. 50	2. 18	·1143	22. 0	·00809*	22. 0	54 ·5	55 ·0
14. 55	35. 40	3. 25	·1142					
15. 14	34. 50	4. 32	·1134					
15. 53	36. 0	5. 30	·1131					
16. 11	35. 5	9. 36	·1160					
	***	9. 47	·1156					
20. 6	33. 50	16. 40	·1160					
	***	17. 3	·1161					
22. 13	32. 30	17. 52	·1162					
	***	18. 49	·1168					
23. 59	36. 0	21. 0	·1165					
		22. 9	·1160					
		23. 11	·1151					
		23. 34	·1152					
			(†)					
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 0	21. 36. 5		(†)	7. 15	·00641*	7. 15	54 ·7	54 ·3
1. 15	37. 45	0. 11	·1141	21. 40	·00050*	12. 40	55 ·0	54 ·0
	***	1. 33	·1159			13. 40	55 ·0	54 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

November 6. The time-piece giving motion to the cylinder for register of Vertical Force was away from this date to December 3, for the purpose of altering it, so that the cylinder should make one revolution in 24 hours instead of two revolutions as heretofore.

November 8^{d}. 21^{h}. 40^{m}. Vertical Force. The number inserted is correctly reduced from the observation. It is probable that a displacement of the magnet had taken place.

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 8		Nov. 8				Nov. 8		
h m	° ′ ″	h m		h m		m	°	°
5. 29	21. 34. 0	5. 0	·1168			14. 40	55 ·0	54 ·6
8. 11	32. 20	5. 52	·1167			15. 40	55 ·0	54 ·6
8. 37	31. 30	8. 49	·1172			16. 40	55 ·0	54 ·7
8. 58	31. 10	9. 10	·1170			17. 40	55 ·6	54 ·8
9. 21	28. 40	9. 45	·1171			18. 40	56 ·2	55 ·4
10. 0	29. 55	10. 7	·1176			19. 40	57 ·4	56 ·2
12. 39	33. 50	11. 0	·1171			20. 40	58 ·1	56 ·7
15. 40	33. 50	11. 22	·1177			21. 40	58 ·3	57 ·0
16. 16	32. 50	12. 10	·1171			22. 40	54 ·0	57 ·7
16. 48	33. 0	12. 43	·1173			23. 40	59 ·6	58 ·2
17. 6	33. 45	13. 38	·1167					
17. 21	33. 0	14. 19	·1167					
17. 30	33. 50	15. 9	·1161					
17. 44	33. 0	16. 44	·1161					
19. 36	32. 20	17. 32	·1164					
20. 15	33. 0	18. 11	·1161					
21. 24	33. 30	19. 53	·1159					
	***	20. 17	·1162					
22. 52	38. 30	21. 15	·1143					
23. 38	39. 20	22. 0	·1144					
	(†)	22. 54	·1128					
		23. 59	·1134					
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
	(†)	0. 0	·1134	1. 40	·00104*	0. 40	60 ·2	58 ·4
0. 53	21. 39. 20	2. 33	·1130	3. 40	·00144*	1. 40	61 ·0	58 ·5
	***	3. 6	·1132	9. 40	·00214*	2. 40	61 ·1	58 ·8
3. 4	38. 25	3. 38	·1145	21. 40	·00489*	3. 40	61 ·4	59 ·2
	***	4. 15	·1142			4. 40	61 ·4	59 ·5
3. 40	41. 5		***			5. 40	61 ·5	59 ·7
4. 20	40. 30	5. 32	·1151			6. 40	61 ·5	59 ·7
	***	5. 37	·1157			7. 40	61 ·7	59 ·7
6. 12	33. 30	6. 19	·1153			8. 40	62 ·0	60 ·0
6. 37	37. 30	6. 23	·1158			9. 40	60 ·8	60 ·0
7. 0	35. 40	6. 33	·1140			10. 40	60 ·6	60 ·0
7. 15	34. 0	6. 39	·1148			11. 40	60 ·5	59 ·8
7. 30	37. 30	7. 7	·1134			21. 40	57 ·0	57 ·0
7. 39	35. 50	7. 13	·1126					
7. 43	36. 30	7. 22	·1131					
	(†)	7. 31	·1122					
9. 48	30. 0	7. 40	·1126					
10. 2	18. 15		(†)					
10. 44	29. 20	9. 49	·1097					
10. 55	27. 30	10. 5	·1106					
11. 25	34. 50	10. 23	·1104					
11. 37	34. 30	10. 38	·1093					
11. 44	35. 30	11. 7	·1131					
11. 57	29. 0	11. 23	·1132					
12. 11	31. 30	11. 32	·1136					
12. 41	28. 10	11. 40	·1128					
12. 52	27. 10	11. 50	·1136					
12. 57	27. 0	12. 7	·1118					
13. 40	33. 0	12. 36	·1128					
	***	12. 47	·1126					
15. 0	34. 0	14. 30	·1128					
15. 22	34. 30	14. 37	·1132					
15. 35	35. 30	14. 47	·1128					
15. 52	33. 30	15. 13	·1131					
16. 13	36. 40	15. 26	·1127					

Gottingen Mean Solar Time.	Western Declination.	Gottingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature	Gottingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 9		Nov. 9						
h m	° ′ ″	h m		h m		h m	°	°
16. 45	21. 33. 30	15. 39	·1131					
16. 59	34. 40	15. 51	·1129					
	***	16. 30	·1138					
17. 56	32. 35	17. 11	·1136					
	***	17. 21	·1139					
18. 28	33. 45	17. 44	·1144					
	***	19. 6	·1147					
18. 45	32. 45	20. 9	·1149					
	***	21. 5	·1151					
19. 12	34. 20	21. 44	·1146					
	***		(†)					
20. 6	33. 30							
20. 26	32. 20							
	***							
20. 53	32. 50							
21. 10	34. 30							
21. 30	35. 0							
	(†)							
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
	(†)		(†)	1. 40	·00642*	1. 40	57 ·5	56 ·7
1. 40	21. 37. 52*	1. 40	·1141*	3. 40	·00584*	3. 40	58 ·4	57 ·8
3. 40	37. 20	3. 40	·1141	9. 40	·00439*	9. 40	56 ·8	57 ·5
6. 0	34. 30	7. 29	·1153	21. 40	·00794*	21. 40	51 ·8	52 ·3
8. 21	34. 35	7. 52	·1162					
8. 30	33. 50	8. 6	·1155					
8. 49	34. 20	8. 19	·1159					
9. 11	33. 5	8. 54	·1151					
9. 39	34. 30	9. 3	·1154					
10. 0	34. 0	9. 32	·1142					
11. 51	33. 50	10. 44	·1143					
12. 19	35. 15	11. 6	·1154					
13. 10	35. 30	11. 49	·1149					
13. 39	34. 30	12. 5	·1152					
19. 15	36. 15	12. 19	·1148					
21. 44	34. 0	12. 37	·1149					
23. 36	37. 20	12. 44	·1154					
	(†)	12. 53	·1149					
		17. 24	·1166					
		18. 9	·1164					
		20. 15	·1170					
		22. 26	·1156					
		23. 31	·1154					
		23. 59	·1161					
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
	(†)		(†)	1. 40	·00758*	1. 40	54 ·7	54 ·0
1. 0	21. 34. 0	1. 22	·1148	3. 40	·00518*	3. 40	57 ·3	55 ·8
1. 15	33. 30	1. 55	·1161	9. 40	·00089*	9. 40	55 ·8	55 ·5
1. 45	34. 25	2. 7	·1154	21. 40	·00840*	21. 40	46 ·2	47 ·6
1. 53	36. 50	2. 19	·1169					
2. 10	33. 45	2. 28	·1154					
2. 15	40. 0	3. 0	·1148					
2. 38	34. 0	4. 4	·1151					
3. 15	35. 30	4. 16	·1148					
	***	4. 41	·1137					
4. 25	38. 30	5. 0	·1146					
	***	5. 7	·1141					
4. 51	36. 0	5. 15	·1146					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

November 11d. 9h. 40m. Vertical Force. The number is correctly deduced from the observations, and the changes indicated seem to be correct, as similar differences at the same time are shewn on November 12.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 11		Nov. 11						
h m	° ′ ″	h m		h m		h m		
5. 9	21. 38. 0	5. 27	·1129					
5. 15	36. 5	5. 40	·1128					
5. 24	38. 30	5. 53	·1137					
5. 37	34. 40	6. 4	·1126					
5. 45	32. 50	6. 10	·1126					
5. 57	38. 45	6. 23	·1134					
6. 11	37. 40	6. 32	·1126					
6. 29	39. 25	6. 43	·1130					
6. 40	35. 35	6. 47	·1122					
6. 43	37. 55	7. 1	·1122					
7. 0	32. 50	7. 15	·1134					
7. 24	35. 10	7. 30	·1126					
7. 42	30. 50	7. 55	·1152					
	***	8. 6	·1151					
8. 8	29. 50	8. 21	·1160					
8. 13	28. 35	8. 28	·1154					
8. 56	31. 30	9. 0	·1161					
9. 43	30. 55	9. 54	·1157					
9. 52	31. 50	10. 47	·1161					
10. 53	30. 30	11. 12	·1179					
11. 13	28. 10	11. 26	·1166					
11. 28	32. 15	11. 37	·1168					
11. 45	30. 0	12. 5	·1162					
11. 56	32. 45	15. 4	·1169					
12. 24	30. 40	15. 25	·1162					
13. 7	32. 30	15. 56	·1166					
14. 24	32. 15	16. 15	·1173					
14. 45	32. 50	16. 58	·1172					
15. 12	31. 0	17. 44	·1178					
	***	22. 13	·1185					
15. 45	32. 0		***					
16. 0	33. 0	22. 54	·1176					
16. 29	32. 30		***					
17. 15	33. 20	23. 11	·1178					
17. 42	32. 35		***					
	***	23. 59	·1164					
21. 30	32. 20							
	***							
23. 35	36. 30							
23. 53	32. 50							
23. 59	34. 30							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 0	21. 35. 0	0. 0	·1164	1. 40	·00783*	1. 40	48 ·0	48 ·4
0. 11	36. 30	0. 29	·1175	3. 40	·00644*	3. 40	51 ·0	50 ·4
0. 30	38. 30	0. 56	·1178	9. 40	·00150*	9. 40	53 ·0	52 ·0
	***	2. 42	·1162	21. 40	·00564*	21. 40	48 ·0	48 ·0
2. 15	39. 50	3. 28	·1122					
	***	3. 46	·1144					
2. 31	39. 30	4. 15	·1155					
	***	4. 35	·1142					
3. 21	42. 10	4. 44	·1145					
3. 55	36. 0	5. 6	·1138					
4. 28	39. 35	5. 15	·1154					
4. 51	34. 30	5. 22	·1148					
5. 11	39. 50	5. 33	·1146					
5. 24	37. 0	5. 45	·1151					
	***	5. 58	·1136					
5. 44	42. 50	6. 9	·1138					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 12		Nov. 12						
h m	° ′ ″	h m		h m		h m		
6. 10	21. 43. 30	6. 9	·1138					
6. 25	39. 30	6. 23	·1142					
6. 35	39. 30	6. 38	·1157					
6. 49	37. 30	6. 42	·1157					
7. 1	41. 30	6. 58	·1138					
7. 15	33. 25	7. 5	·1152					
7. 31	34. 50	7. 10	·1151					
8. 10	31. 25	7. 29	·1156					
8. 19	32. 30	7. 44	·1154					
8. 32	31. 30	8. 2	·1162					
	***	8. 7	·1156					
8. 53	32. 40	8. 12	·1166					
9. 37	25. 55	8. 22	·1160					
9. 59	10. 30	8. 58	·1154					
10. 15	12. 15	9. 15	·1148					
10. 29	21. 0	9. 26	·1137					
10. 45	24. 0	10. 1	·1189					
10. 57	21. 0	10. 13	·1178					
11. 19	22. 25	10. 21	·1176					
11. 40	31. 0	10. 30	·1160					
11. 51	28. 30	10. 42	·1165					
12. 39	29. 50	11. 9	·1164					
	***	11. 25	·1146					
13. 21	35. 0	11. 43	·1150					
13. 36	41. 20	12. 23	·1144					
13. 47	37. 15	13. 14	·1146					
14. 1	41. 25	13. 26	·1141					
14. 14	37. 50	13. 52	·1149					
14. 30	47. 30	14. 2	·1144					
15. 17	35. 30	14. 23	·1160					
	***	14. 42	·1160					
15. 42	39. 30	15. 13	·1147					
	***	15. 22	·1151					
16. 45	36. 20	16. 0	·1155					
16. 52	37. 30	16. 39	·1153					
17. 15	35. 40	16. 49	·1139					
17. 41	37. 40	17. 9	·1140					
	***	18. 6	·1152					
18. 39	35. 20	18. 22	·1161					
19. 0	37. 30	19. 52	·1138					
19. 36	37. 10	20. 10	·1149					
19. 44	38. 0	20. 35	·1154					
	***	21. 7	·1155					
21. 23	30. 30	22. 20	·1136					
	***	22. 52	·1133					
23. 15	39. 30	23. 7	·1137					
	(†)	23. 16	·1134					
			(†)					
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
	(†)		(†)	1. 40	·00820*	1. 40	47 ·0	48 ·0
0. 35	21. 38. 50	1. 37	·1139	3. 40	·00733*	3. 40	51 ·0	49 ·5
	***	4. 22	·1151	9. 40	·00162*	9. 40	52 ·0	51 ·2
1. 25	39. 0	5. 0	·1146	21. 40	·00148*	21. 40	50 ·0	50 ·3
1. 41	40. 50	5. 9	·1138					
	***	5. 22	·1154					
3. 29	36. 20	5. 37	·1152					
3. 44	36. 50	5. 49	·1159					
4. 22	34. 45	6. 38	·1156					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 1		Nov. 13						
h m	° ′ ″	h m		h m		h m	°	°
4. 5*	21. 35. 20	9. 0	·1162					
5. 19	35. 25	9. 14	·1172					
5. 36	35. 0	9. 30	·1164					
5. 51	35. 30	10. 15	·1162					
		12. 19	·1164					
6. 30	33. 30	12. 30	·1169					
7. 11	34. 0	14. 47	·1161					
7. 36	34. 0	18. 31	·1162					
7. 57	33. 20	18. 52	·1169					
8. 13	32. 30	22. 0	·1158					
8. 54	33. 30	22. 39	·1146					
9. 14	29. 30	22. 47	·1140					
9. 35	34. 30	23. 15	·1141					
12. 52	34. 20	23. 59	·1140					
13. 12	35. 30							
14. 33	36. 45							
15. 0	34. 35							
16. 13	36. 40							
	***							
19. 43	34. 40							
20. 20	34. 40							
21. 10	33. 30							
23. 59	38. 10							
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 0	21. 38. 10	0. 0	·1140	1. 40	·00158*	1. 40	53 ·6	52 ·0
0. 58	39. 0	3. 22	·1142	3. 40	·00258*	3. 40	54 ·5	54 ·1
2. 40	38. 15	4. 6	·1139	9. 40	·00242*	9. 40	56 ·4	55 ·1
3. 0	37. 40	4. 30	·1143	23. 16	·00671	23. 16	52 ·0	51 ·8
5. 29	36. 10	8. 4	·1147					
6. 6	35. 0	8. 45	·1151					
6. 29	35. 20	9. 15	·1162					
6. 54	34. 30	9. 56	·1141					
7. 8	35. 0							
7. 43	33. 40	10. 30	·1161					
8. 15	31. 40	20. 32	·1151					
8. 40	32. 40	20. 48	·1154					
		21. 26	·1154					
10. 51	35. 30	21. 42	·1158					
11. 27	34. 45							
12. 15	36. 15	23. 30	·1149					
14. 17	36. 50	23. 59	·1149					
18. 51	36. 20							
19. 13	37. 0							
19. 45	36. 20							
20. 11	37. 40							
21. 4	33. 0							
	(†)							
23. 16	35. 55*							
	(†)							
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
	(†)	0. 0	·1149	7. 10	·00487*	7. 10	54 ·0	53 ·0
0. 27	21. 37. 30	3. 15	·1151	21. 40	·00440*	12. 40	52 ·5	52 ·1
2. 44	37. 20	5. 4	·1140			13. 40	52 ·0	51 ·8
3. 30	35. 50	5. 30	·1144			14. 40	52 ·3	51 ·7
5. 23	35. 10	5. 52	·1146			15. 40	52 ·8	52 ·0
5. 45	32. 20	6. 14	·1145			16. 40	53 ·0	52 ·0
6. 3	32. 40	7. 7	·1151			17. 40	53 ·0	52 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 15		Nov. 15				Nov. 15		
h m	° ′ ″	h m		h m		h m	°	°
6. 27	21. 31. 0	7. 30	·1148			18. 40	53 ·2	52 ·2
6. 59	33. 40	7. 51	·1150			19. 40	54 ·0	52 ·4
7. 41	33. 45	8. 10	·1147			20. 40	53 ·9	52 ·3
7. 55	34. 30	8. 45	·1153			21. 40	54 ·3	52 ·7
	***	8. 58	·1151			22. 40	54 ·3	52 ·7
8. 54	33. 0	9. 20	·1154			23. 40	55 ·0	53 ·3
9. 52	33. 55	9. 30	·1151					
10. 13	32. 40	10. 7	·1155					
10. 22	33. 0	10. 20	·1157					
10. 55	31. 45	10. 31	·1155					
11. 22	33. 0	11. 0	·1157					
12. 21	33. 0	11. 49	·1152					
13. 36	36. 0	12. 21	·1155					
14. 3	35. 50	13. 18	·1154					
14. 52	34. 10	13. 26	·1150					
	***	14. 9	·1149					
19. 2	34. 50	14. 30	·1145					
19. 22	35. 40	15. 17	·1146					
19. 43	35. 0	15. 37	·1149					
20. 28	35. 10	15. 47	·1147					
	(†)	17. 16	·1148					
21. 40	32. 21*	18. 20	·1143					
	(†)	19. 7	·1147					
		19. 24	·1149					
		19. 47	·1150					
		20. 34	·1152					
		21. 26	·1142					
		22. 15	·1138					
		23. 59	·1139					
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
	(†)	0. 0	·1139	1. 40	·00273*	0. 40	55 ·6	55 ·0
1. 40	21. 35. 38*	0. 39	·1140	3. 40	·00387*	1. 40	55 ·0	55 ·4
1. 54	34. 0	1. 7	·1131	9. 40	·00487*	2. 40	56 ·0	55 ·7
2. 14	35. 40	1. 36	·1132	21. 40	·01039*	3. 40	57 ·1	56 ·7
2. 23	33. 50	2. 47	·1134			4. 40	58 ·1	57 ·7
3. 41	33. 35	2. 56	·1141			5. 40	58 ·5	57 ·2
4. 36	30. 30	3. 14	·1131			6. 40	58 ·5	57 ·3
5. 0	8. 30	3. 36	·1130			7. 40	57 ·0	57 ·0
6. 15	33. 30	4. 12	·1146			8. 40	57 ·3	57 ·0
6. 46	30. 30	4. 48	·1127			9. 40	57 ·0	57 ·0
6. 58	31. 30	5. 10	·1127			10. 40	57 ·0	57 ·0
7. 43	28. 30	5. 34	·1111			11. 40	56 ·3	56 ·8
8. 2	23. 30	6. 0	·1121			21. 40	50 ·0	50 ·0
8. 26	26. 30	6. 7	·1116					
8. 43	16. 30	6. 39	·1124					
8. 53	10. 45	6. 48	·1122					
9. 41	28. 0	7. 37	·1122					
10. 43	30. 20	7. 54	·1139					
11. 14	22. 0	8. 1	·1135					
11. 58	28. 0	8. 7	·1137					
12. 8	26. 10	8. 20	·1132					
12. 37	33. 30	8. 31	·1134					
12. 47	31. 10	8. 38	·1127					
13. 29	29. 30	9. 30	·1138					
13. 59	36. 0	9. 45	·1135					
14. 21	36. 30	10. 4	·1139					
14. 44	33. 30	10. 18	·1140					
15. 0	41. 50	11. 0	·1151					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been, generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F.	On V. F.
Nov. 16		Nov. 16						
h m	° ′ ″	h m		h m		h m	°	°
15. 57	21. 36. 35	11. 9	·1147					
16. 25	36. 25	11. 22	·1148					
16. 42	37. 45	11. 37	·1158					
17. 4	37. 40	12. 7	·1151					
17. 28	37. 0	12. 22	·1153					
17. 56	36. 15	12. 30	·1157					
18. 13	37. 30	12. 46	·1156					
18. 37	37. 5	13. 27	·1161					
18. 51	38. 20	14. 0	·1160					
19. 24	34. 30	14. 21	·1162					
	***	14. 42	·1162					
19. 49	34. 20	15. 0	·1172					
	***	15. 30	·1170					
20. 12	35. 15	16. 0	·1178					
20. 31	33. 30	16. 16	·1175					
	***	16. 44	·1167					
21. 16	37. 30	17. 4	·1170					
	***	17. 23	·1166					
21. 47	41. 20	17. 40	·1166					
	***	18. 16	·1157					
22. 42	37. 30	18. 37	·1162					
	***	18. 53	·1154					
22. 50	38. 50	19. 5	·1164					
22. 59	38. 0	19. 14	·1159					
	(†)	19. 48	·1158					
		20. 14	·1164					
			***					
		21. 38	·1121					
			***					
		22. 0	·1120					
			***					
		22. 15	·1122					
		22. 32	·1131					
		22. 37	·1127					
		23. 20	·1135					
			(†)					
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
	(†)		(†)	1. 40	·01039*	1. 40	52	·0 51 ·3
1. 13	21. 37. 40	1. 29	·1134	3. 40	·00901*	3. 40	54	·0 52 ·0
	***	2. 0	·1124	9. 40	·00214*	9. 40	55	·0 53 ·5
1. 49	41. 50	2. 7	·1127	21. 40	·00532*	21. 40	50	·3 50 ·7
	***	2. 11	·1124					
2. 36	34. 40	2. 24	·1126					
2. 57	35. 30	2. 31	·1132					
	***	2. 44	·1126					
4. 19	28. 30	3. 19	·1126					
4. 39	32. 30	3. 40	·1132					
	***	4. 0	·1129					
4. 59	28. 0	4. 13	·1131					
	***	4. 22	·1137					
5. 41	29. 20	4. 34	·1126					
6. 18	26. 0	4. 46	·1128					
6. 43	11. 45	5. 0	·1122					
7. 14	21. 0	5. 24	·1125					
7. 21	20. 0	5. 43	·1121					
7. 43	22. 45	6. 0	·1124					
7. 54	22. 45	6. 15	·1125					
8. 19	25. 30	6. 38	·1102					

Göttingen Mean Solar Time.	Western Declination	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. On H. F.	On V. F.
Nov. 17		Nov. 17						
h m	° ′ ″	h m		h m		h m	°	°
8. 58	21. 13. 4	7. 1	·1134					
9. 51	20. 35	7. 22	·1130					
	***	7. 55	·1125					
10. 47	17. 30	8. 7	·1128					
11. 0	18. 40	8. 32	·1122					
11. 30	16. 30	8. 47	·1121					
12. 15	32. 40	9. 2	·1127					
12. 43	22. 40	9. 33	·1124					
12. 52	23. 50	10. 6	·1141					
13. 40	13. 35	10. 28	·1131					
14. 21	28. 0	10. 37	·1135					
14. 39	23. 20	10. 46	·1135					
15. 2	32. 0	11. 8	·1124					
15. 27	26. 0	11. 36	·1126					
16. 15	42. 10	12. 9	·1132					
16. 39	33. 30	12. 30	·1137					
16. 48	43. 20	12. 43	·1136					
17. 0	42. 40	12. 47	·1162					
17. 52	49. 30	13. 9	·1134					
18. 12	48. 0	13. 22	·1161					
18. 19	54. 20	13. 46	·1156					
18. 32	52. 0	14. 7	·1158					
18. 42	52. 30	14. 23	·1155					
18. 59	51. 0	14. 34	·1163					
19. 13	51. 0	14. 53	·1151					
20. 28	39. 30	15. 9	·1168					
20. 44	41. 0	15. 21	·1173					
20. 55	39. 50	15. 51	·1158					
	***	16. 14	·1164					
22. 27	41. 45	16. 26	·1141					
22. 41	40. 30	16. 37	·1138					
	***	16. 49	·1148					
23. 13	43. 30	17. 7	·1143					
	***	17. 16	·1137					
23. 59	39. 30	17. 30	·1147					
		17. 54	·1137					
		18. 5	·1146					
		18. 7	·1145					
		18. 16	·1134					
		18. 34	·1146					
		18. 43	·1146					
		18. 57	·1132					
		19. 15	·1128					
		19. 27	·1134					
		19. 40	·1128					
		20. 17	·1128					
		20. 23	·1122					
		20. 37	·1123					
		20. 54	·1114					
		21. 9	·1119					
		21. 44	·1108					
		23. 41	·1100					
		23. 59	·1104					
Nov. 18		Nov. 18		Nov. 18		Nov. 18		
0. 0	21. 39. 30	0. 0	·1104	1. 40	·00702*	1. 40	53	·0 52 ·0
1. 0	38. 0		***	3. 40	·00521*	3. 40	57	·0 56 ·0
	***	2. 52	·1124	9. 40	·00241*	9. 40	57	·0 56 ·0
			***	21. 44	·01070*	21. 44	51	·3 50 ·3

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

November 16ᵈ. 5ʰ. 0ᵐ. The Western Declination 21°. 8′. 30″ is correct.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 18		Nov. 18						
h m	° ′ ″	h m		h m		h m	°	°
2. 32	21. 41. 20	3. 10	·1109					
	***	3. 24	·1112					
3. 35	34. 35	3. 36	·1124					
3. 51	42. 40	3. 46	·1123					
4. 1	30. 20	3. 54	·1100					
4. 10	32. 15	4. 5	·1112					
4. 21	26. 30	4. 8	·1104					
4. 30	26. 20	4. 22	·1113					
4. 46	32. 30	4. 30	·1124					
5. 3	30. 0	4. 37	·1116					
5. 23	32. 40	4. 51	·1111					
5. 39	32. 45	5. 5	·1124					
5. 45	35. 20	5. 25	·1123					
	***	5. 37	·1129					
6. 10	32. 0	6. 10	·1116					
6. 15	32. 30	6. 29	·1121					
6. 39	30. 5	6. 35	·1126					
	***	6. 39	·1124					
6. 56	32. 50	6. 44	·1130					
7. 4	36. 30	6. 52	·1124					
7. 14	33. 20	6. 55	·1128					
7. 25	34. 0	7. 4	·1111					
	***	7. 13	·1121					
7. 52	30. 30	7. 30	·1122					
8. 10	21. 30	7. 37	·1127					
8. 23	36. 40	7. 51	·1115					
8. 30	33. 0	8. 0	·1116					
8. 41	36. 30	8. 3	·1141					
9. 21	31. 20	8. 10	·1136					
9. 50	33. 55	8. 20	·1112					
10. 4	31. 30	8. 27	·1123					
10. 19	32. 0	8. 51	·1117					
10. 41	31. 20	9. 44	·1127					
10. 57	34. 30	9. 53	·1121					
11. 43	31. 0	10. 24	·1131					
11. 57	32. 45	10. 32	·1139					
12. 21	31. 50	11. 22	·1129					
13. 13	32. 10	11. 36	·1132					
13. 29	39. 50	11. 57	·1129					
13. 50	32. 30	13. 21	·1152					
	***	13. 42	·1128					
15. 44	32. 20	13. 54	·1133					
16. 0	33. 30	14. 47	·1138					
16. 21	32. 30	15. 30	·1136					
17. 42	32. 55	16. 35	·1142					
20. 10	31. 20	19. 41	·1142					
22. 5	31. 30	21. 34	·1136					
	***	23. 9	·1122					
22. 40	33. 30	23. 59	·1125					
23. 12	32. 40							
23. 59	34. 30							
Nov. 19		Nov. 19		Nov. 19		Nov. 19		
0. 0	21. 34. 30	0. 0	·1125	1. 40	·00978*	1. 40	51 ·7	51 ·2
0. 58	34. 0		***	3. 40	·00868*	3. 40	53 ·2	51 ·7
3. 0	34. 30	3. 24	·1121	9. 40	·00441*	9. 40	54 ·0	52 ·8
5. 15	32. 20	4. 7	·1126	21. 40	·00590*	21. 40	51 ·2	51 ·0
6. 22	32. 20	5. 53	·1133					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 19		Nov. 19						
h m	° ′ ″	h m		h m		h m	°	°
7. 31	21. 30. 50	6. 29	·1132					
10. 11	29. 35	7. 7	·1136					
10. 27	29. 0	8. 46	·1139					
12. 11	29. 30	8. 54	·1137					
12. 27	24. 45	9. 36	·1137					
13. 15	30. 30	9. 53	·1141					
15. 30	31. 40	10. 6	·1140					
15. 57	32. 55	10. 24	·1142					
	***	11. 56	·1142					
18. 43	32. 20	12. 22	·1156					
	***	12. 37	·1148					
22. 6	32. 15	13. 0	·1149					
	***	13. 13	·1146					
23. 59	34. 30	13. 48	·1150					
		15. 37	·1150					
		18. 40	·1159					
		20. 26	·1161					
		23. 7	·1140					
		23. 48	·1142					
		23. 59	·1141					
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
0. 0	21. 34. 30	0. 0	·1141	1. 40	·00564*	1. 40	52 ·8	52 ·3
0. 44	33. 0	2. 45	·1132	3. 40	·00366*	3. 40	55 ·0	53 ·6
1. 48	34. 45	2. 54	·1136	9. 40	·00490*	9. 40	56 ·5	54 ·5
4. 28	32. 20	3. 6	·1131	21. 40	·00846*	21. 40	51 ·5	51 ·2
	***	3. 41	·1134					
4. 54	34. 0	3. 52	·1132					
	***	4. 37	·1137					
5. 52	30. 30	5. 32	·1133					
7. 36	30. 35	6. 0	·1139					
8. 39	29. 35	7. 16	·1141					
9. 11	30. 10	7. 30	·1139					
9. 18	29. 35	9. 41	·1142					
	***	9. 54	·1140					
11. 8	29. 55	10. 28	·1144					
	***	10. 58	·1139					
11. 52	31. 40	11. 27	·1145					
12. 12	31. 20	12. 0	·1140					
12. 29	31. 20	12. 36	·1144					
12. 47	29. 30	12. 50	·1141					
13. 15	32. 0	13. 6	·1146					
13. 42	30. 10	13. 43	·1144					
14. 7	32. 30	13. 52	·1149					
14. 15	31. 0	14. 11	·1148					
14. 45	32. 10	14. 23	·1150					
14. 58	31. 5	14. 49	·1149					
16. 17	30. 30	16. 23	·1149					
	***	16. 37	·1153					
17. 26	32. 35	16. 52	·1150					
17. 44	32. 20	18. 39	·1156					
	***	21. 4	·1152					
19. 58	32. 40	21. 41	·1138					
21. 37	32. 20	22. 45	·1131					
	***	23. 55	·1128					
23. 30	34. 30	23. 59	·1129					
23. 41	36. 5							
23. 47	36. 10							
	(†)							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
Nov. 21		Nov. 21		Nov. 21		Nov. 21		
h m	° ′ ″	h m		h m		h m	°	°
	(†)	0. 0	·1128	1. 40	·00883*	1. 40	54 ·3	52 ·8
0. 58	21. 35. 10	1. 41	·1124	3. 40	·00621*	3. 40	57 ·0	55 ·2
1. 59	34. 20	2. 20	·1126	9. 40	·00466*	9. 40	57 ·0	55 ·2
2. 28	35. 15	3. 0	·1122	23. 5	·01056*	23. 5	51 ·3	51 ·0
3. 28	32. 50	3. 21	·1122					
4. 21	32. 20	3. 36	·1128					
6. 5	32. 45	3. 54	·1130					
6. 36	29. 25	4. 13	·1136					
7. 27	32. 30	5. 37	·1140					
	***	6. 0	·1135					
8. 7	32. 30	6. 26	·1126					
8. 18	31. 30	6. 43	·1135					
8. 40	31. 30	6. 50	·1135					
9. 6	29. 0		***					
9. 24	31. 0	7. 45	·1142					
	***	8. 6	·1138					
12. 7	30. 30	8. 21	·1141					
12. 38	31. 30	8. 40	·1138					
13. 0	30. 0	9. 7	·1145					
13. 24	31. 50	9. 20	·1144					
14. 18	29. 10	9. 36	·1138					
15. 11	32. 30		***					
16. 16	32. 30	13. 54	·1142					
17. 0	33. 30	14. 4	·1150					
21. 26	32. 45	14. 32	·1142					
21. 40	32. 0	18. 36	·1153					
22. 54	35. 0	20. 49	·1152					
23. 27	33. 30	23. 59	·1141					
23. 59	33. 40							
Nov. 22		Nov. 22		Nov. 22		Nov. 22		
0. 0	21. 33. 40	0. 0	1141	7. 18	·00932*	7. 18	52 ·0	51 ·4
0. 25	33. 20	0. 24	·1137	22. 40	·00432*	12. 40	51 ·0	51 ·2
1. 6	37. 30	0. 36	·1140			13. 40	51 ·6	51 ·2
1. 54	34. 35	2. 7	·1142			14. 40	51 ·8	51 ·3
3. 10	34. 30	2. 30	·1146			15. 40	52 ·2	51 ·4
4. 39	33. 20	3. 8	·1150			16. 40	52 ·5	51 ·5
6. 14	30. 55	7. 30	·1156			17. 40	53 ·0	51 ·9
	***	9. 0	·1157			18. 40	54 ·0	52 ·7
9. 54	30. 30	9. 22	·1154			19. 40	55 ·0	53 ·4
10. 24	32. 30	9. 31	·1161			20. 40	55 ·5	53 ·8
	***	9. 37	·1161			21. 40	56 ·5	54 ·8
13. 26	30. 50	9. 41	·1156			22. 40	57 ·2	55 ·4
	***	9. 48	·1157			23. 40	58 ·0	56 ·2
18. 51	30. 45	9. 54	·1156					
19. 10	32. 50	10. 5	·1150					
19. 44	33. 30	10. 26	·1154					
20. 21	38. 30	10. 31	·1158					
20. 57	36. 0	10. 36	·1158					
22. 25	33. 40	10. 43	·1152					
22. 42	36. 20	10. 49	·1158					
23. 0	34. 30	10. 55	·1155					
23. 20	37. 40	11. 10	·1157					
23. 36	36. 40	11. 14	·1153					
	(†)	11. 57	·1157					
		12. 7	·1150					
		12. 16	·1152					
		12. 49	·1146					
		14. 10	·1146					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. of H. F. Magnet.	of V. F. Magnet.
		Nov. 22				Nov. 23		
h m	° ′ ″	h m		h m		h m	°	°
		14. 25	·1153					
		14. 44	·1147					
		15. 0	·1152					
		15. 22	·1149					
		15. 26	·1152					
			***					
		17. 54	·1151					
		18. 22	·1156					
		18. 37	·1146					
		19. 0	·1147					
		19. 18	·1142					
		19. 33	·1144					
		20. 0	·1127					
		20. 17	·1123					
		20. 43	·1134					
		21. 7	·1135					
		21. 14	·1124					
		22. 30	·1121					
		22. 52	·1112					
		23. 12	·1115					
		23. 27	·1111					
			(†)					
Nov. 23		Nov. 23		Nov. 23		Nov. 23		
	(†)		(†)	1. 40	·00365*	0. 40	59 ·0	59 ·4
0. 49	21. 35. 0	0. 56	·1106	3. 40	·00420*	1. 40	59 ·2	56 ·4
1. 0	36. 30	1. 21	·1098	9. 40	·00794*	2. 40	59 ·0	56 ·2
1. 12	35. 30	2. 40	·1114	21. 46	·01147*	3. 40	60 ·0	57 ·3
1. 30	36. 50	3. 25	·1108			4. 40	60 ·2	57 ·6
	***	3. 56	·1082			5. 40	60 ·3	57 ·2
3. 40	34. 50	4. 20	·1094			6. 40	60 ·4	57 ·3
4. 13	28. 0	4. 32	·1096			7. 40	60 ·2	57 ·3
4. 45	33. 35	4. 58	·1088			8. 40	60 ·0	56 ·8
5. 4	30. 35	5. 12	·1096			9. 40	60 ·0	57 ·0
5. 15	31. 20	5. 26	·1093			10. 43	59 ·5	57 ·0
5. 42	28. 20	5. 54	·1092			11. 40	59 ·0	57 ·0
	***	6. 7	·1084			21. 46	52 ·8	52 ·0
6. 0	28. 30	6. 16	·1084					
6. 15	24. 30	6. 29	·1099					
6. 29	27. 30	6. 45	·1090					
6. 43	25. 20	6. 55	·1095					
6. 59	26. 30	7. 3	·1091					
7. 10	25. 45	7. 16	·1092					
7. 15	25. 30	7. 35	·1098					
7. 37	14. 45	7. 42	·1111					
7. 43	17. 55	7. 49	·1098					
8. 13	9. 20	8. 32	·1111					
8. 43	21. 40	8. 35	·1123					
8. 58	18. 30	8. 49	·1105					
9. 15	25. 10	9. 0	·1112					
9. 45	27. 35	9. 11	·1126					
10. 11	25. 30	9. 43	·1121					
10. 44	24. 35	10. 22	·1111					
10. 59	33. 20	10. 44	·1162					
11. 15	26. 30	10. 53	·1140					
11. 29	27. 30	11. 0	·1124					
12. 0	14. 0	11. 26	·1132					
12. 12	16. 20	11. 39	·1117					
12. 30	16. 20	11. 54	·1135					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

November 23d. 8h. 13m. The Western Declination 21°. 9′. 20″ is correct.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 23		Nov. 23						
h m	° ′ ″	h m		h m		h m	°	°
12. 44	21. 20. 30	12. 7	·1134					
12. 51	19. 50	12. 30	·1135					
13. 33	32. 40	12. 37	·1130					
14. 0	29. 0	12. 57	·1130					
14. 21	28. 30	13. 22	·1120					
14. 54	30. 30	14. 13	·1139					
15. 44	38. 30	14. 49	·1139					
	***	15. 17	·1128					
16. 29	38. 30	15. 37	·1128					
16. 44	37. 15	16. 4	·1136					
17. 0	39. 50	16. 26	·1134					
17. 18	39. 30	16. 49	·1140					
17. 53	35. 30	17. 8	·1140					
	***	17. 32	·1151					
18. 45	42. 30	18. 36	·1149					
19. 25	36. 0	18. 50	·1147					
19. 44	36. 30	19. 22	·1133					
	***		***					
20. 11	37. 0	21. 54	·1148					
20. 25	35. 10		***					
	***	22. 30	·1137					
22. 45	32. 40		***					
23. 25	35. 20	23. 59	·1127					
	***							
23. 59	34. 0							
Nov. 24		Nov. 24		Nov. 24		Nov. 24		
0. 0	21. 34. 0	0. 0	·1127	1. 40	·01162*	1. 40	53 ·9	52 ·6
0. 21	36. 30		***	3. 40	·00736*	3. 40	55 ·0	53 ·5
0. 35	35. 30	0. 24	·1134	9. 43	·00659*	9. 43	52 ·7	51 ·4
0. 51	38. 35		***	21. 44	·00958*	21. 44	44 ·7	45 ·0
1. 44	36. 30	0. 47	·1123					
1. 51	35. 30		***					
2. 29	36. 5	1. 5	·1128					
3. 9	33. 30		***					
3. 28	36. 30	1. 18	·1124					
3. 45	33. 20		***					
3. 54	33. 35	2. 35	·1126					
4. 16	32. 45		***					
4. 33	29. 30	2. 46	·1117					
4. 51	16. 30		***					
5. 5	22. 0	3. 7	·1116					
5. 11	21. 30		***					
5. 40	32. 20	3. 24	·1126					
5. 55	28. 30		***					
6. 26	22. 40	3. 37	·1116					
6. 36	20. 30		***					
6. 56	29. 10	3. 50	·1125					
7. 10	26. 20		***					
7. 21	29. 0	4. 2	·1121					
7. 56	18. 30		***					
8. 10	21. 25	4. 29	·1127					
8. 14	19. 35		***					
9. 13	30. 0	4. 40	·1114					
10. 0	28. 50		***					
10. 34	29. 55	4. 57	·1142					
10. 54	28. 30		***					
11. 12	29. 5	5. 8	·1127					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 24		Nov. 24						
h m	° ′ ″	h m		h m		h m	°	°
11. 17	21. 28. 35	5. 35	·1127					
	***		***					
12. 30	32. 30	5. 44	·1111					
13. 15	31. 20		***					
13. 43	32. 0	5. 55	·1120					
14. 16	38. 55		***					
14. 55	33. 30	6. 17	·1113					
17. 23	32. 55		***					
19. 18	33. 20	6. 39	·1123					
20. 28	34. 30		***					
21. 19	33. 30	6. 46	·1135					
	***	7. 23	·1120					
23. 19	36. 20	7. 37	·1122					
	***	7. 45	·1116					
23. 59	35. 40	8. 4	·1123					
		8. 9	·1118					
		8. 37	·1136					
		9. 28	·1141					
		10. 0	·1138					
		10. 30	·1145					
		10. 45	·1162					
		10. 53	·1161					
		11. 6	·1150					
		14. 5	·1146					
			***					
		14. 31	·1159					
			***					
		15. 8	·1152					
			***					
		16. 37	·1164					
			***					
		21. 16	·1150					
			***					
		22. 30	·1142					
			***					
		23. 59	·1141					
Nov. 25		Nov. 25		Nov. 25		Nov. 25		
0. 0	21. 33. 40	0. 0	·1141	1. 40	·00963*	1. 40	47 ·1	46 ·7
1. 27	36. 20	0. 27	·1148	3. 40	·00733*	3. 40	49 ·0	48 ·2
3. 12	34. 50	1. 16	·1141	9. 40	·00149*	9. 40	51 ·5	50 ·5
3. 54	32. 20	2. 22	·1142	21. 40	·00414*	21. 40	47 ·5	47 ·3
4. 0	32. 40	2. 46	·1137					
4. 35	31. 10	3. 5	·1140					
4. 43	31. 50	3. 17	·1134					
4. 57	31. 0	3. 45	·1136					
5. 21	21. 30	3. 51	·1133					
5. 54	31. 20	4. 30	·1136					
	***	4. 51	·1133					
6. 17	31. 30	5. 1	·1121					
8. 31	30. 50	5. 19	·1146					
8. 53	31. 5	5. 33	·1148					
9. 11	30. 30	5. 52	·1154					
9. 54	31. 0	8. 14	·1147					
10. 0	31. 50	8. 30	·1146					
	***	8. 47	·1149					
10. 31	29. 30	9. 0	·1145					
10. 49	32. 30	9. 45	·1144					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 25		Nov. 25						
h m	° ′ ″	h m		h m		h m	°	°
10. 58	21. 32. 40	10. 40	·1160					
11. 12	33. 50	10. 54	·1150					
11. 37	30. 30	12. 42	·1151					
12. 17	25. 20	13. 22	·1147					
12. 54	30. 50	14. 9	·1151					
13. 24	28. 0	14. 29	·1148					
13. 32	29. 10	16. 45	·1156					
14. 22	30. 30	17. 52	·1152					
14. 53	33. 0	18. 47	·1165					
15. 27	31. 45	21. 36	·1144					
16. 17	32. 0	21. 49	·1137					
16. 39	30. 50	23. 59	·1140					
17. 30	32. 45							
18. 10	38. 0							
18. 22	37. 45							
18. 39	38. 20							
19. 40	34. 40							
19. 58	35. 40							
20. 19	34. 40							
20. 29	36. 0							
	***							
21. 55	34. 30							
22. 20	36. 5							
23. 12	34. 30							
	***							
23. 59	35. 30							
Nov. 26		Nov. 26		Nov. 26		Nov. 26		
0. 0	21. 35. 30	0. 0	·1140	1. 40	·00553*	1. 40	48 ·5	47 ·3
0. 15	37. 30		***	3. 40	·00472*	3. 40	50 ·0	48 ·4
1. 13	35. 10	8. 54	·1153	9. 40	·00135*	9. 40	51 ·5	50 ·5
2. 27	34. 20	10. 45	·1147	21. 40	·00234*	21. 40	48 ·5	48 ·0
2. 45	33. 0	11. 50	·1148					
5. 4	30. 30	11. 55	·1156					
5. 25	31. 30	12. 12	·1155					
6. 47	30. 0	12. 21	·1164					
10. 12	30. 10	12. 37	·1162					
11. 34	29. 20	13. 15	·1150					
12. 12	23. 0	13. 39	·1151					
12. 43	25. 20	14. 21	·1144					
13. 9	23. 30	15. 10	·1152					
14. 7	30. 30	16. 22	·1150					
14. 44	30. 45	17. 3	·1158					
14. 52	27. 0	17. 43	·1154					
15. 12	32. 0	18. 25	·1161					
15. 22	31. 30	21. 24	·1149					
15. 29	33. 30	21. 47	·1148					
15. 42	32. 15	22. 22	·1136					
15. 54	33. 0	22. 49	·1137					
16. 15	31. 30	23. 30	·1125					
	***	23. 41	·1131					
18. 44	31. 50	23. 53	·1128					
20. 15	33. 0	23. 59	·1131					
21. 0	32. 30							
21. 27	34. 40							
21. 55	34. 30							
	***							
22. 21	36. 30							

Göttingen Mean Solar Time.	West in Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 26								
h m	° ′ ″	h m		h m		h m	°	°
22. 47	21. 35. 25							
22. 57	36. 30							
23. 59	36. 0							
Nov. 27		Nov. 27		Nov. 27		Nov. 27		
0. 0	21. 36. 0	0. 0	·1131	1. 40	·00231*	1. 40	50 ·7	49 ·2
2. 55	34. 30	2. 22	·1134	3. 40	·00299*	3. 40	53 ·2	51 ·3
3. 21	35. 0	2. 43	·1124	9. 40	·00533*	9. 40	52 ·0	51 ·0
3. 41	33. 50	3. 30	·1126	21. 40	·00978*	21 40	44 ·8	44 ·6
4. 22	32. 55	3. 52	·1134					
4. 41	33. 30	4. 7	·1132					
5. 0	32. 40	5. 30	·1136					
5. 30	33. 45	5. 38	·1134					
5. 46	32. 30	6. 1	·1140					
6. 7	33. 20	6. 23	·1131					
6. 17	32. 30	7. 0	·1136					
6. 43	32. 40	7. 21	·1134					
7. 0	34. 0	7. 56	·1146					
7. 30	31. 30	8. 14	·1148					
	***	8. 23	·1143					
8. 13	31. 0	8. 45	·1145					
8. 31	29. 20	9. 0	·1150					
8. 42	30. 0	9. 9	·1147					
8. 51	29. 20	9. 30	·1150					
9. 0	30. 5	9. 46	·1149					
9. 18	29. 35	10. 5	·1154					
9. 44	31. 30	10. 23	·1152					
10. 12	29. 20	10. 30	·1156					
10. 36	29. 35	10. 46	·1154					
11. 13	26. 0	11. 14	·1161					
12. 46	32. 30	11. 35	·1156					
13. 7	32. 20	14. 23	·1165					
13. 41	33. 0	15. 38	·1162					
14. 48	32. 30	19. 9	·1171					
15. 30	34. 30	19. 55	·1169					
15. 44	33. 0	20. 38	·1173					
16. 10	32. 35	22. 0	·1168					
16. 24	33. 0	22. 15	·1162					
16. 44	32. 0	22. 52	·1157					
19. 11	32. 30	23. 14	·1150					
19. 40	33. 30	23. 39	·1146					
20. 2	32. 40	23. 59	·1154					
21. 11	32. 20							
22. 16	32. 45							
22. 40	33. 30							
22. 59	33. 0							
23. 59	35. 0							
Nov. 28		Nov. 28		Nov. 28		Nov. 28		
0. 0	21. 35. 0	0. 0	·1154	1. 40	·00963*	1. 40	47 ·3	46 ·5
1. 40	36. 25	0. 5	·1149	3. 40	·00659*	3. 40	50 ·0	48 ·8
1. 58	35. 0		***	9. 40	·00147*	9. 40	50 ·4	49 ·2
3. 54	32. 30	1. 39	·1142	23. 20	·00530*	23. 20	47 ·0	46 ·0
4. 12	33. 40	2. 30	·1135					
4. 25	33. 30	4. 0	·1140					
4. 54	34. 30	4. 47	·1138					
5. 40	32. 20	6. 5	·1150					
7. 10	30. 30	7. 34	·1150					
7. 20	31. 20	8. 0	·1145					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 28		Nov. 28						
h m	° ′ ″	h m		h m		h m	°	°
7. 55	21. 28. 50	8. 30	·1146					
8. 53	31. 55	8. 49	·1151					
9. 27	30. 45	9. 33	·1158					
10. 29	31. 0		***					
11. 12	27. 5	12. 44	·1157					
12. 12	32. 15	12. 52	·1162					
12. 51	31. 50	13. 0	·1160					
13. 6	33. 50	13. 17	·1169					
13. 14	33. 10	13. 49	·1160					
13. 24	33. 30	14. 25	·1158					
13. 54	31. 40	14. 44	·1161					
14. 52	32. 45	15. 0	·1161					
17. 9	30. 30	15. 15	·1164					
17. 51	32. 20	15. 30	·1161					
18. 41	31. 10	15. 47	·1164					
23. 59	35. 0	16. 55	·1161					
		17. 9	·1164					
		17. 45	·1162					
		19. 6	·1168					
		20. 37	·1169					
		22. 52	·1162					
			(†)					
Nov. 29		Nov. 29		Nov. 29		Nov. 29		
0. 0	21. 35. 0	0. 0	·1151	7. 32	·00411*	7. 32	47 ·0	47 ·0
	***	1. 45	·1145	21. 40	·00161*	12. 40	47 ·2	47 ·2
0. 45	34. 35	4. 45	·1158			13. 40	47 ·2	47 ·2
	***	5. 7	·1150			14. 40	47 ·7	47 ·4
1. 21	36. 10	5. 28	·1152			15. 40	48 ·0	47 ·6
1. 31	35. 5	5. 39	·1159			16. 40	48 ·8	47 ·8
2. 13	34. 0	6. 50	·1162			17. 40	49 ·3	48 ·0
2. 37	34. 35	7. 50	·1161			18. 40	49 ·9	48 ·5
4. 11	32. 30	8. 16	·1163			19. 40	50 ·5	49 ·0
4. 49	32. 0	9. 49	·1152			20. 40	51 ·0	49 ·2
5. 7	30. 0	10. 0	·1156			21. 40	51 ·2	49 ·2
5. 42	29. 45	10. 11	·1158			22. 40	51 ·7	50 ·2
7. 58	32. 5	10. 23	·1155			23. 40	52 ·2	50 ·2
7. 15	30. 30	10. 45	·1160					
8. 10	30. 40	12. 0	·1162					
8. 39	29. 20	12. 11	·1158					
	***	12. 24	·1162					
10. 39	28. 40	12. 43	·1155					
11. 24	30. 5	12. 53	·1160					
12. 25	30. 0	13. 36	·1152					
12. 39	28. 30	13. 48	·1158					
12. 56	29. 0	15. 45	·1150					
13. 26	25. 50	17. 51	·1154					
14. 10	30. 40	18. 7	·1152					
14. 15	28. 45	19. 36	·1158					
15. 30	28. 0	20. 30	·1152					
16. 17	29. 35	21. 0	·1154					
16. 48	29. 5	21. 19	·1149					
19. 30	29. 45	23. 12	·1146					
19. 42	30. 50	23. 59	·1142					
20. 37	30. 0							
22. 21	32. 25							
23. 51	33. 10							
	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 30		Nov. 30		Nov. 30		Nov. 30		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 33. 10	0. 0	·1142	1. 40	·00469*	0. 40	52 ·8	51 ·6
1. 30	33. 5	6. 11	·1136	3. 40	·00702*	1. 40	53 ·4	51 ·2
4. 42	31. 50	7. 12	·1141	9. 40	·00963*	2. 40	53 ·6	51 ·4
5. 27	32. 25	10. 45	·1137	21. 45	·01078*	3. 40	54 ·0	51 ·5
6. 0	30. 30	12. 39	·1143			4. 40	54 ·2	51 ·7
11. 39	29. 10	15. 0	·1154			5. 40	54 ·3	51 ·7
14. 42	32. 20	18. 54	·1159			6. 40	54 ·0	51 ·7
14. 57	30. 50	19. 30	·1162			7. 40	54 ·0	51 ·7
15. 16	31. 30	20. 51	·1163			8. 40	54 ·0	52 ·0
20. 25	30. 0	21. 32	·1158			9. 40	54 ·8	51 ·8
22. 4	32. 20	22. 0	·1151			10. 40	54 ·0	51 ·5
22. 58	32. 10	23. 59	·1153			11. 40	53 ·0	51 ·0
	(†)					21. 45	49 ·0	48 ·4
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 0	21. 32. 40	0. 0	·1153	1. 40	·01009*	1. 40	51 ·5	50 ·5
1. 50	34. 5	3. 5	·1155	3. 40	·00833*	3. 40	54 ·0	52 ·0
	***	5. 48	·1166	9. 40	·00345*	9. 40	56 ·0	54 ·0
5. 38	32. 0	7. 52	·1159	21. 40	·00638*	21. 40	52 ·7	52
6. 44	32. 20	8. 30	·1164					
7. 22	31. 20	10. 7	·1162					
7. 38	32. 20	10. 35	·1166					
8. 10	29. 15	11. 6	·1163					
8. 30	31. 0	11. 37	·1166					
10. 56	32. 10	13. 0	·1159					
11. 54	31. 45	13. 21	·1180					
13. 13	29. 55	13. 40	·1167					
13. 32	33. 0	14. 14	·1161					
14. 12	24. 30		***					
15. 15	32. 5	20. 0	·1175					
	***	21. 30	·1170					
18. 22	33. 30	22. 31	·1164					
21. 36	32. 40	22. 44	·1154					
23. 20	34. 40	23. 21	·1159					
	(†)		(†)					
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
	(†)		(†)	1. 40	·00567*	1. 40	55 ·0	53 ·8
0. 28	21. 34. 50	0. 26	·1156	3. 40	·00996*	3. 40	57 ·0	55 ·8
1. 2	35. 0	1. 15	·1160	9. 40	·00587*	9. 40	58 ·4	56 ·2
1. 16	37. 5	3. 0	·1146	21. 43	·01065*	21. 43	54 ·0	52 ·6
	***	3. 56	·1146					
3. 35	37. 30		***					
3. 54	35. 50	4. 39	·1138					
4. 5	36. 0	5. 25	·1149					
4. 21	35. 10	6. 37	·1154					
4. 32	35. 20	7. 35	·1150					
5. 9	33. 30	7. 57	·1133					
6. 22	32. 30	8. 40	·1153					
6. 44	33. 0	9. 24	·1148					
7. 30	34. 30	10. 30	·1154					
7. 52	33. 30		***					
8. 30	26. 45	13. 7	·1154					
8. 54	30. 10	13. 49	·1158					
9. 2	30. 10	14. 15	·1154					
9. 15	32. 0	16. 0	·1161					
9. 40	31. 30	19. 29	·1164					
10. 30	32. 20	21. 30	·1160					
11. 28	31. 50		***					
13. 12	33. 20	23. 59	·1146					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 2								
h m	° ′ ″	h m		h m		h m	°	°
13. 31	21. 32. 20							
15. 35	32. 45							
15. 47	33. 40							
20. 36	32. 30							
22. 53	33. 35							
23. 59	33. 20							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	21. 33. 20	0. 0	·1146	1. 40	·01009*	1. 40	55 ·2	53 ·4
0. 57	34. 5	1. 51	·1141	3. 40	·00855*	3. 40	56 ·5	54 ·7
6. 43	31. 40	2. 22	·1146	9. 43	·00411*	9. 43	57 ·5	55 ·5
8. 13	32. 0	4. 15	·1145	21. 40	·00613*	21. 40	54 ·8	53 ·8
9. 2	31. 0	5. 37	·1152					
9. 45	31. 30	20. 9	·1170					
10. 0	30. 30	21. 23	·1162					
15. 54	34. 0	23. 0	·1146					
19. 18	33. 35		***					
19. 45	34. 0	23. 59	·1142					
22. 4	33. 30							
23. 13	36. 0							
23. 59	36. 30							
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 0	21. 36. 30	0. 0	·1142		(†)	1. 40	56 ·6	54 ·8
1. 27	36. 5	1. 44	·1137	4. 0	·01097	3. 40	59 ·0	57 ·6
4. 44	32. 50	4. 17	·1138	6. 42	·01236	9. 40	55 ·0	56 ·0
11. 40	32. 30	4. 37	·1142	7. 36	·01302	21. 40	48 ·7	50 ·7
	***	7. 13	·1147	10. 0	·01315			
12. 41	29. 10		***	12. 56	·01288			
12. 56	31. 0	10. 30	·1160	13. 15	·01270			
13. 42	24. 30		***	15. 40	·01261			
14. 28	33. 50	11. 15	·1154	21. 22	·01206			
	***	11. 29	·1156	23. 53	{·01224			
21. 22	33. 20	11. 39	·1153		{·01140			
22. 59	36. 5	12. 22	·1161	23. 59	·01130			
	(†)	12. 32	·1156					
		12. 46	·1170					
		12. 58	·1162					
		13. 5	·1163					
		13. 22	·1158					
		13. 39	·1164					
		14. 17	·1151					
		16. 0	·1167					
		16. 9	·1162					
		16. 15	·1166					
		16. 21	·1172					
		16. 24	·1167					
		17. 0	·1174					
		18. 7	·1174					
		18. 39	·1182					
		19. 5	·1176					
		19. 29	·1180					
		19. 53	·1176					
		21. 40	·1172					
		22. 29	·1159					
		23. 0	·1162					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
h m	° ′ ″	h m		h m		h m	°	°
	(†)		(†)	0. 0	·01273	1. 40	52 ·6	53 ·2
1. 27	21. 33. 0	0. 5	·1142	2. 21	·01182	3. 40	55 ·5	55 ·3
3. 52	32. 0	1. 48	·1153	8. 7	·00755	9. 40	55 ·7	55 ·3
5. 11	32. 10	5. 30	·1158	8. 55	·00782	22. 40	51 ·0	52 ·0
5. 45	32. 50	10. 18	·1160	14. 0	·00786			
13. 52	32. 5	15. 23	·1167	20. 38	{·00855			
14. 44	32. 30	19. 45	·1164		{·01083			
15. 59	32. 0	20. 43	·1164	23. 59	·00997			
17. 8	32. 0		(†)					
19. 43	34. 0	23. 59	·1163					
	(†)							
22. 40	34. 13							
23. 59	34. 50							
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 0	21. 34. 50	0. 0	·1163	0. 0	·01000	6. 45	53 ·8	55 ·0
2. 26	35. 20		***	0. 30	·01115	12. 40	55 ·0	55 ·9
3. 33	33. 0	10. 24	·1162	1. 46	·00988	13. 40	55 ·0	56 ·0
4. 43	33. 20	10. 44	·1157	2. 50	·00816	14. 40	55 ·1	56 ·0
5. 39	32. 50	11. 0	·1158	4. 0	·00861	15. 40	55 ·1	56 ·0
9. 45	32. 30	12. 15	·1153	6. 32	{·00815	16. 40	55 ·7	56 ·0
10. 6	31. 40	12. 30	·1148		{·00991	17. 40	56 ·5	56 ·6
10. 43	32. 30	13. 0	·1146	7. 22	·00983	18. 40	57 ·1	56 ·9
11. 2	31. 50	13. 9	·1142	13. 44	·01336	19. 40	58 ·0	57 ·4
11. 33	31. 40	14. 30	·1140	23. 45	·01297	20. 40	58 ·8	57 ·8
12. 24	30. 0	15. 11	·1144		(†)	21. 40	59 ·0	58 ·0
12. 45	29. 45	17. 8	·1146			22. 40	59 ·0	58 ·0
13. 11	31. 0	18. 0	·1143			23. 40	59 ·2	58 ·2
13. 35	29. 50	19. 9	·1146					
14. 10	31. 20	21. 0	·1142					
16. 53	31. 40	21. 23	·1150					
17. 15	31. 0	21. 30	·1140					
17. 41	31. 50		***					
19. 55	31. 10	23. 59	·1142					
22. 30	33. 0							
23. 59	34. 40							
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	21. 34. 40	0. 0	·1142		(†)	0. 40	59 ·6	58 ·3
0. 51	35. 0		***	1. 0	·00974	1. 40	59 ·8	58 ·4
1. 21	33. 45	4. 14	·1141	1. 44	{·00965	2. 40	60 ·0	58 ·6
1. 59	35. 30	9. 30	·1138		{·01097	3. 40	60 ·2	58 ·7
2. 43	33. 0	10. 7	·1145	4. 27	·01037	4. 40	60 ·2	59 ·0
5. 59	32. 10	13. 39	·1145	5. 9	·01073	5. 40	60 ·0	59 ·0
7. 45	33. 0	19. 30	·1168	7. 6	·01083	6. 40	60 ·0	59 ·2
8. 9	32. 20	20. 48	·1166	7. 34	·01138	7. 40	60 ·5	59 ·5
8. 29	32. 50	22. 0	·1160	9. 10	·01134	8. 40	61 ·0	60 ·3
8. 50	32. 20	22. 45	·1151	9. 45	·01175	9. 40	61 ·0	60 ·7
9. 11	32. 30	23. 0	·1154	10. 34	·01156	10. 40	60 ·5	61 ·0
9. 42	30. 30	23. 16	·1151	10. 47	·01198	11. 40	60 ·2	61 ·0
10. 32	32. 40	23. 59	·1152	11. 52	·01200	21. 40	52 ·2	54 ·2
11. 21	30. 40			12. 23	·01249			
11. 45	31. 30			16. 0	·01388			
12. 25	30. 40			22. 30	·01321			
	***			23. 28	·01325			
13. 15	32. 20			23. 59	·01290			
13. 54	31. 20							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

December 4. The time-piece giving motion to the cylinder for register of the Vertical Force was remounted, having been altered to make the cylinder revolve in twenty-four hours instead of twelve as formerly.

Göttingen Mean Solar Time.	Western Declination.
Dec. 7	
h m	° ′ ″
14. 54	21. 32. 50
15. 32	32. 30
16. 11	33. 30
16. 32	32. 40
	***
18. 21	33. 50
18. 41	33. 20
22. 28	32. 45
22. 39	33. 45
22. 49	32. 50
23. 9	34. 20
23. 59	34. 30
Dec. 8	
0. 0	21. 34. 30
0. 30	35. 20
2. 41	34. 20
3. 7	32. 20
4. 10	31. 10
11. 12	30. 30
11. 52	32. 20
13. 2	31. 40
13. 30	30. 0
14. 12	31. 0
15. 56	30. 0
17. 14	32. 0
19. 53	31. 30
22. 14	33. 35
	***
23. 59	33. 30
Dec. 9	
0. 0	21. 33. 30
	***
1. 15	34. 30
3. 36	31. 30
7. 54	31. 55
8. 15	31. 30
8. 51	32. 0
9. 36	31. 30
10. 12	32. 20
10. 36	29. 0
10. 58	31. 30
11. 15	30. 30
11. 41	32. 40
12. 7	31. 40
12. 17	31. 50
13. 29:	29. 40
	***
14. 40	34. 40
15. 25	29. 45
	***
17. 13	32. 20
17. 59	31. 0
18. 9	32. 20
	***
19. 30	32. 20

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 8	
h m	
0. 0	·1152
1. 47	·1154
2. 8	·1149
3. 46	·1151
4. 45	·1145
5. 9	·1145
6. 0	·1155
6. 45	·1157
7. 7	·1154
7. 34	·1157
9. 45	·1162
10. 10	·1160
14. 6	·1162
15. 24	·1170
18. 55	·1172
21. 0	·1163
22. 0	·1153
23. 59	·1151
Dec. 9	
0. 0	·1151
1. 30	·1145
2. 7	·1148
3. 30	·1144
7. 57	·1157
10. 10	·1157
10. 14	·1161
10. 37	·1166
10. 53	·1158
11. 41	·1160
12. 7	·1162
12. 35	·1157
14. 24	·1154
15. 0	·1164
15. 9	·1164
15. 18	·1161
16. 56	·1164
18. 23	·1173
19. 52	·1169
20. 45	·1158
20. 57	·1162
21. 45	·1156
22. 17	·1148
23. 59	·1147

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 8	
h m	
0. 0	·01279
1. 54	·01334
2. 30	·01323
5. 10	·01084
7. 35	·00996
9. 26	·00990
14. 49	·01077
21. 0	{ ·01265
	{ ·01263
22. 41	·01280
23. 59	·01275
Dec. 9	
0. 0	·01269
1. 43	{ ·01274
	{ ·00996
3. 38	·00936
5. 54	·00761
7. 10	·00700
10. 7	{ ·00702
	{ ·00856
16. 30	·00913
22. 38	·01064
	(†)

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 8		
h m	°	°
1. 40	53 ·8	54 ·4
3. 40	55 ·4	56 ·0
9. 40	54 ·6	55 ·3
21. 40	51 ·3	52 ·3
Dec. 9		
1. 40	52 ·8	52 ·8
3. 40	54 ·0	53 ·7
9. 40	53 ·2	53 ·4
21. 40	50 ·6	51 ·6

Göttingen Mean Solar Time.	Western Declination.
Dec. 9	
h m	° ′ ″
20. 9	21. 34. 0
	***
22. 14	34. 30
	***
23. 11	36. 40
23. 40	36. 20
23. 59	35. 10
Dec. 10	
0. 0	21. 35. 10
0. 10	34. 30
0. 41	37. 5
	***
3. 28	32. 50
4. 30	33. 45
5. 36	30. 40
6. 0	32. 50
6. 26	32. 20
6. 43	34. 30
7. 0	32. 30
7. 12	33. 5
7. 49	31. 35
8. 40	32. 0
9. 11	28. 40
9. 28	30. 55
9. 51	30. 0
10. 44	32. 50
15. 10	33. 20
15. 29	34. 30
16. 13	32. 50
18. 39	32. 20
20. 14	32. 50
20. 42	33. 50
21. 0	46. 0
21. 5	46. 20
22. 38	48. 0
23. 43	47. 30
23. 59	47. 55
Dec. 11	
0. 0	21. 47. 55
0. 52	50. 50
2. 15	48. 40
2. 27	45. 40
2. 40	46. 50
4. 24	41. 0
6. 7	40. 20
7. 41	41. 50
8. 43	40. 15
10. 22	40. 20
10. 42	41. 10
10. 54	40. 30
11. 55	42. 40
12. 35	41. 50
13. 0	42. 0
13. 21	41. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 10	
h m	
0. 0	·1147
0. 6	·1145
0. 22	·1148
0. 45	·1146
0. 58	·1150
1. 6	·1146
2. 17	·1145
2. 33	·1149
2. 40	·1145
3. 16	·1142
3. 38	·1148
3. 56	·1145
4. 10	·1146
4. 21	·1142
4. 47	·1142
5. 38	·1128
5. 49	·1131
6. 14	·1129
6. 23	·1132
6. 47	·1124
7. 6	·1136
7. 15	·1135
7. 45	·1141
10. 0	·1151
	***
15. 37	·1160
15. 49	·1164
18. 15	·1166
20. 15	·1159
20. 50	·1150
21. 6	·1151
21. 22	·1146
23. 59	·1138
Dec. 11	
0. 0	·1138
0. 8	·1141
0. 36	·1135
1. 24	·1136
1. 30	·1139
1. 55	·1141
2. 5	·1136
	***
3. 54	·1135
4. 51	·1142
6. 43	·1144
8. 10	·1151
10. 6	·1154
10. 24	·1162
10. 37	·1160
10. 49	·1162

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 10	
h m	
0. 0	·01054
1. 9	·01020
2. 0	·00975
3. 35	·00754
4. 54	{ ·00744
	{ ·00828
5. 29	·00810
5. 53	·00844
9. 30	·00916
11. 9	·00935
14. 53	·01094
20. 30	·01275
23. 0	·01280
	(†)
Dec. 11	
0. 0	·01269
1. 9	·01271
2. 0	·01216
5. 8	·00835
6. 1	{ ·00797
	{ ·00933
7. 0	·00935
11. 39	·01103
14. 26	{ ·01274
	{ ·01242
23. 59	·01224

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 10		
h m	°	°
1. 40	53 ·2	53 ·5
3. 40	56 ·0	56 ·0
9. 40	55 ·5	55 ·4
21. 40	51 ·3	52 ·6
Dec. 11		
1. 40	53 ·2	54 ·0
3. 40	55 ·0	55 ·5
9. 40	53 ·6	54 ·4
21. 40	49 ·1	51 ·2

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 11		Dec. 11						
h m	° ′ ″	h m		h m		h m	°	°
14. 11	21. 42. 20	11. 7	·1159					
14. 43	43. 55		***					
15. 24	41. 40	14. 10	·1162					
15. 57	41. 0	14. 49	·1169					
16. 12	41. 50	15. 30	·1165					
	***	15. 40	·1167					
17. 43	42. 0	16. 13	·1165					
	***	16. 39	·1168					
18. 30	41. 30	16. 52	·1166					
19. 12	42. 0	17. 16	·1168					
19. 27	41. 30		(†)					
21. 28	40. 50	19. 30	·1172					
22. 14	41. 50	21. 0	·1171					
	(†)		(†)					
		21. 40	·1156					
			(†)					
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
	(†)		(†)	0. 0	·01115	1. 40	51 ·0	51 ·8
0. 40	21. 37. 30	0. 37	·1144	1. 39	·01098	3. 40	52 ·9	53 ·0
	***	0. 42	·1147	2. 50	·01040	9. 40	52 ·3	52 ·4
1. 28	38. 20	1. 6	·1141	3. 56	·00967	23. 15	49 ·6	52 ·0
	***	1. 12	·1144	4. 37	·00869			
2. 44	34. 30	2. 55	·1147	7. 5	·00716			
	***	3. 29	·1141	10. 10	·00661			
4. 14	37. 45	4. 4	·1148	13. 0	·00654			
4. 45	36. 0	5. 0	·1140	15. 26	·00676			
4. 56	36. 30	6. 56	·1146	23. 59	·00857			
5. 12	36. 15	8. 30	·1145					
5. 21	37. 0	9. 7	·1154					
5. 44	35. 40	9. 30	·1147					
5. 59	36. 0	10. 26	·1153					
6. 29	33. 50	10. 37	·1150					
6. 51	34. 45	11. 0	·1156					
7. 15	32. 30	11. 19	·1153					
7. 56	33. 30	13. 45	·1156					
	***	14. 16	·1164					
8. 52	32. 30	15. 15	·1158					
9. 12	29. 50	18. 22	·1167					
9. 24	32. 0	19. 30	·1167					
9. 45	29. 50	20. 7	·1160					
	***	23. 8	·1160					
12. 32	35. 10		(†)					
13. 13	34. 20							
	***							
14. 5	36. 0							
18. 30	34. 0							
18. 50	34. 45							
19. 17	33. 0							
19. 52	34. 55							
20. 53	33. 40							
23. 21	37. 30							
23. 59	37. 0							
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 0	21. 37. 0	0. 0	·1154	0. 0	·00869	7. 40	49 ·0	51 ·5
1. 11	38. 5	3. 15	·1161	2. 39	·00917	12. 40	49 ·0	50 ·2
3. 15	34. 50	3. 30	·1156	9. 50	·00881	13. 40	49 ·0	50 ·2
3. 40	33. 20	4. 19	·1164	15. 29	·00900	14. 40	49 ·4	50 ·6
4. 2	34. 0	7. 8	·1164	18. 7	·00843	15. 40	50 ·0	51 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
h m	° ′ ″	h m		h m		h m	°	°
10. 52	21. 33. 30	8. 6	·1158			16. 40	50 ·2	51 ·2
16. 23	35. 30	11. 49	·1164	22. 51	·00667	17. 40	50 ·7	51 ·4
16. 57	34. 10	12. 30	·1158		·00821	18. 40	51 ·0	51 ·6
17. 45	34. 40	13. 26	·1161	23. 59	·00814	19. 40	51 ·5	51 ·8
18. 51	32. 50	16. 6	·1152			20. 40	51 ·9	52 ·0
21. 59	32. 30	21. 9	·1158			21. 40	51 ·9	51 ·7
23. 59	36. 10	22. 22	·1149			22. 40	52 ·3	51 ·9
		23. 59	·1157			23. 40	52 ·0	52 ·2
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
0. 0	21. 36. 10	0. 0	·1137	0. 0	·00830	0. 40	52 ·4	52 ·5
2. 30	37. 20		***	1. 10	·00844	1. 40	52 ·9	52 ·5
2. 58	36. 10	7. 35	·1144	1. 39	·00865	2. 40	53 ·5	52 ·5
3. 10	36. 50	8. 28	·1140		·00941	3. 40	53 ·9	52 ·9
5. 8	33. 20	8. 49	·1149	2. 23	·00904	4. 40	54 ·0	53 ·0
8. 41	32. 0	9. 5	·1143		·00850	5. 40	54 ·0	53 ·4
8. 55	27. 55	9. 45	·1145	5. 4	·00915	6. 40	54 ·3	53 ·5
9. 40	32. 30	9. 56	·1152	5. 23	·00945	7. 40	54 ·1	53 ·3
10. 11	32. 40	10. 30	·1145	6. 10	·00942	8. 40	54 ·1	53 ·4
10. 41	31. 45	17. 15	·1163	8. 35	·01016	9. 40	54 ·0	53 ·0
14. 4	34. 10	20. 4	·1167	16. 30	·01136	10. 40	54 ·0	53 ·0
14. 27	35. 50		***	23. 59	·01169	11. 40	54 ·0	53 ·5
15. 9	33. 30	23. 0	·1150			21. 40	51 ·0	51 ·5
18. 53	33. 30	23. 49	·1150					
21. 12	30. 30		(†)					
	***							
23. 47	32. 40							
	(†)							
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
	(†)		(†)	0. 0	·01160	1. 40	53 ·0	53 ·2
0. 54	21. 33. 30	0. 21	·1144	1. 10	·01090	3. 40	55 ·0	54 ·4
	***	2. 1	·1147	4. 24	·00647	9. 40	55 ·2	54 ·3
2. 57	33. 30	3. 6	·1154	8. 12	·00581	21. 40	52 ·7	53 ·7
6. 0	31. 0	6. 0	·1152	12. 0	·00615			
	***	8. 24	·1147	17. 30	·00736			
8. 44	31. 50	10. 30	·1156	23. 59	·00874			
11. 0	30. 30	10. 51	·1155					
11. 37	31. 30	11. 9	·1154					
12. 17	29. 20	12. 30	·1156					
13. 10	32. 15	12. 53	·1159					
19. 41	31. 30	18. 30	·1164					
20. 42	30. 30		***					
20. 50	31. 40	20. 45	·1165					
21. 47	30. 5		***					
22. 7	31. 30	23. 22	·1148					
22. 42	31. 5		***					
23. 9	32. 40	23. 59	·1152					
23. 27	32. 0							
23. 40	32. 50							
23. 51	32. 20							
23. 59	33. 30							
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 0	21. 33. 30	0. 0	·1152	0. 0	·00870	1. 40	54 ·2	54 ·2
0. 9	32. 40	3. 32	·1151	0. 35	·00857	3. 40	56 ·2	57 ·5
1. 32	33. 30	4. 0	·1147	2. 10	·00791	9. 40	56 ·5	56 ·5
4. 42	32. 40	5. 17	·1155	4. 13	·00628	21. 40	54 ·0	54 ·5
5. 27	33. 30	5. 41	·1154		·00656			
6. 7	32. 45	5. 56	·1149	6. 45	·00674			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

December 10d. 21h. It is supposed that from this time till 12d. 0h. the Declination Magnet was in some way impeded in its motion; the results must therefore be looked upon with suspicion. About Dec. 12d. 0h. the Magnet and its suspension were examined and cleaned.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 16		Dec. 16		Dec. 16				
h m	° ′ ″	h m		h m		h m	°	°
6. 55	21. 34. 0	6. 49	·1150	14. 10	·00654			
7. 28	32. 15	7. 11	·1144		***			
7. 58	31. 30	7. 24	·1149	15. 24	·00543			
8. 27	28. 0	7. 43	·1149		***			
8. 45	31. 0	8. 0	·1154	16. 0	·00578			
9. 14	31. 50	8. 16	·1154		***			
9. 42	33. 0	8. 30	·1162	16. 13	·00544			
10. 12	32. 0	9. 0	·1152		***			
10. 30	33. 40	9. 21	·1157	16. 30	·00456			
10. 51	32. 30	9. 34	·1148		***			
11. 37	32. 20		***	16. 57	·00554			
11. 47	33. 5	10. 0	·1155		***			
12. 10	32. 10	10. 5	·1154	17. 24	·00579			
12. 40	32. 50	10. 27	·1158		***			
12. 45	34. 45	10. 35	·1152	17. 31	·00619			
12. 58	33. 55	11. 8	·1158		***			
14. 12	57. 50		***	18. 0	·00471			
14. 33	48. 15	12. 15	·1156		***			
14. 44	50. 0		***	19. 15	·00637			
14. 56	46. 0	13. 9	·1149		***			
15. 12	59. 0		***	19. 26	·00680			
15. 15	21. 54. 5	13. 24	·1166		***			
15. 30	22. 0. 10		***	19. 37	·00672			
16. 0	21. 20. 0	13. 45	·1222		***			
16. 20	34. 0		***	20. 5	·00685			
16. 32	32. 20	13. 54	·1203		***			
16. 43	49. 30		***	20. 21	·00773			
17. 10	31. 0	14. 3	·1227		***			
	***		***	20. 39	·00733			
18. 3	22. 0	14. 56	·1142		***			
18. 12	26. 0		***	21. 9	·00878			
18. 17	21. 40	15. 23	·1176		***			
18. 30	39. 0		***	23. 6	·00865			
18. 45	28. 45	15. 39	·1080		***			
	***		***	23. 59	·01096			
19. 12	20. 0	16. 5	·1152					
19. 15	23. 0		***					
19. 26	18. 0	16. 10	·1124					
19. 37	21. 36. 50		***					
19. 56	20. 59. 30	16. 16	·1132					
20. 27	21. 39. 30		***					
20. 51	29. 5	16. 25	·1116					
21. 11	34. 0		***					
21. 21	27. 0	16. 35	·1120					
21. 26	32. 20		***					
21. 45	15. 50	16. 37	·1142					
21. 47	17. 30		***					
21. 55	8. 20	17. 0	·0984					
22. 7	31. 20		***					
22. 21	14. 0	17. 40	·1124					
22. 29	23. 0		***					
22. 31	19. 20	18. 7	·1142					
22. 39	28. 15		***					
22. 45	8. 30	18. 21	·1138					
22. 51	24. 0		***					
22. 57	12. 0	18. 30	·1115					
23. 23	29. 45		***					
23. 25	28. 0	18. 41	·1116					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 16		Dec. 16						
h m	° ′ ″	h m		h m		h m	°	°
23. 27	21. 32. 5	19. 5	·1036					
23. 29	26. 0		***					
23. 30	35. 20	19. 7	·1060					
23. 43	19. 0		***					
23. 45	30. 10	19. 10	·1031					
23. 52	18. 0		***					
23. 55	34. 0	19. 24	·1122					
23. 59	30. 0		***					
		19. 30	·1001					
			***					
		19. 41	·1028					
			***					
		19. 45	·1010					
			***					
		20. 10	·1153					
			***					
		20. 20	·1130					
			***					
		20. 45	·1112					
			***					
		20. 53	·1136					
			***					
		21. 9	·1132					
			***					
		21. 15	·1105					
			***					
		21. 23	·1147					
			***					
		21. 30	·1112					
			***					
		21. 37	·1130					
			***					
		21. 43	·1120					
			***					
		21. 45	·1128					
			***					
		21. 48	·1062					
			***					
		21. 50	·1076					
			***					
		21. 51	·1016					
			***					
		21. 53	·1064					
			***					
		21 55	·1012					
			***					
		21. 57	·1081					
			***					
		22. 0	·1030					
			***					
		22. 2	·1065					
			***					
		22. 7	·1025					
			***					
		22. 8	·1065					
			***					
		22. 9	·1026					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. (Of H. F. Magnet.	(Of V. F. Magnet.
h m	° ′ ″	Dec. 16 h m		h m		h m	c	°
		22. 13	·1070 ***					
		22. 16	·0975 ***					
		22. 22	·1093 ***					
		22. 28	·1061 ***					
		22. 35	·1092 ***					
		22. 44	·1035 ***					
		22. 49	·1111 ***					
		22. 56	·1060 ***					
		23. 7	·1050 ***					
		23. 14	·1075 ***					
		23. 16	·1071 ***					
		23. 33	·1198 ***					
		23. 38	·1182 ***					
		23. 40	·1237 ***					
		23. 59	·1132					
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
	(†)		(†)	0. 0	·01130	1. 40	56 ·5	56 ·3
1. 14	21. 19. 50	1. 23	·1122 ***	1. 0	·01255 ***	3. 40	58 ·0	58 ·0
1. 27	37. 30					9. 40	59 ·0	59 ·0
1. 32	32. 20	1. 29	·1108 ***	1. 15	·01220 ***	21. 46	56 ·0	56 ·2
1. 37	38. 0							
1. 43	31. 20	1. 31	·1142 ***	1. 25	·01076 ***			
1. 45	39. 0							
1. 57	24. 0	1. 36	·1096 ***	1. 32	·01120 ***			
2. 30	38. 40							
2. 44	30. 0	1. 45	·1133 ***	1. 41	·01073 ***			
2. 57	45. 0							
3. 10	33. 20	1. 52	·1090 ***	2. 7	·01079 ***			
3. 13	38. 45							
3. 16	28. 15	2. 0	·1062 ***	2. 36	·00980 ***			
3. 26	34. 30							
3. 33	35. 50	2. 7	·1097 ***	2. 48	·01029 ***			
3. 41	33. 0							
3. 54	31. 50	2. 34	·1145 ***	3. 45	·00974 ***			
4. 15	51. 15							
4. 27	33. 20	2. 39	·1134 ***	3. 51	·01020 ***			
4. 40	41. 50 ***							
		2. 45	·1134 ***	4. 0	·01016			
5. 10	27. 50			4. 7	·01115			
5. 21	33. 20	2. 54	·1112 ***	4. 24	·01108			
5. 39	29. 20			4. 39	·01155			
5. 43	31. 0	3. 3	·1116 ***	4. 54	·01081			
5. 58	39. 50			5. 0	·01114			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. (Of H. F. Magnet.	(Of V. F. Magnet.
Dec. 17 h m	° ′ ″	Dec. 17 h m		Dec. 17 h m		h m	c	°
6. 2	21. 34. 0	3. 9	·1091 ***	5. 22	·01022			
6. 11	35. 50			5. 53	·01020			
6. 29	25. 20	3. 45	·1102 ***	6. 10	·01196			
6. 45	37. 20			6. 39	·01061			
6. 57	22. 0	3. 53	·1095 ***	6. 53	·01067			
7. 8	35. 50			7. 21	·01000			
7. 15	29. 30	4. 9	·1166 ***	7. 54	·01016			
7. 25	34. 35			8. 24	·00947			
7. 39	29. 0	4. 30	·1082 ***	8. 42	·01019			
7. 43	37. 50			9. 9	·00920			
8. 11	30. 30	4. 34	·1094 ***	9. 30	·00871			
8. 20	34. 0			11. 54	·00829			
8. 36	30. 0	4. 38	·1088 ***	12. 58	·00850			
8. 48	14. 10			13. 10	·00825			
8. 54	22. 10	4. 46	·1093 ***	14. 21	·00890			
9. 10	10. 5			15. 24	·00873			
9. 29	27. 20	4. 50	·1086 ***	23. 59	·01084			
9. 39	17. 50							
9. 54	26. 5	4. 53	·1104 ***					
9. 58	25. 5							
10. 6	28. 40	5. 7	·1059 ***					
10. 11	27. 0							
10. 22	32. 45	5. 15	·1091 ***					
10. 34	29. 10							
10. 44	30. 10 ***	5. 23	·1091 ***					
11. 13	27. 55	5. 30	·1083 ***					
11. 21	29. 30							
11. 30	28. 10	5. 48	·1105 ***					
11. 40	29. 30							
11. 48	28. 30	5. 53	·1128 ***					
12. 7	30. 0							
12. 18	26. 30 ***	6. 1	·1102 ***					
12. 49	26. 0	6. 7	·1110 ***					
13. 6	32. 45							
13. 24	27. 20	6. 15	·1124 ***					
13. 37	28. 10							
14. 9	26. 30	6. 24	·1094 ***					
14. 27	32. 50							
14. 39	32. 0	6. 35	·1118 ***					
14. 44	42. 0							
14. 58	35. 30	6. 38	·1102 ***					
15. 14	37. 20							
15. 30	31. 0	6. 45	·1108 ***					
15. 59	32. 20							
16. 5	31. 20	6. 51	·1093 ***					
16. 12	32. 5							
16. 25	30. 50	7. 0	·1102 ***					
16. 37	32. 50							
16. 58	31. 20	7. 6	·1122 ***					
17. 25	29. 30							
17. 37	32. 0	7. 14	·1094 ***					
17. 44	31. 0							
18. 7	32. 30 ***	7. 22	·1107 ***					
18. 42	32. 30 ***	7. 37	·1084 ***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 17		Dec. 17						
h m	° ′ ″	h m		h m		h m	°	°
19. 51	21. 34. 50	7. 45	·1113					
	***		***					
21. 20	32. 40	7. 53	·1096					
	***		***					
23. 59	36. 20	8. 20	·1105					
			***					
		8. 23	·1084					
			***					
		8. 30	·1102					
			***					
		8. 39	·1095					
			***					
		8. 52	·1121					
			***					
		9. 3	·1098					
			***					
		9. 7	·1112					
			***					
		9. 22	·1124					
			***					
		9. 30	·1102					
			***					
		9. 53	·1126					
			***					
		10. 4	·1092					
			***					
		10. 8	·1106					
			***					
		10. 18	·1110					
			***					
		10. 25	·1105					
			***					
		10. 37	·1118					
			***					
		10. 44	·1100					
			***					
		11. 0	·1094					
			***					
		11. 10	·1104					
			***					
		11. 24	·1105					
			***					
		11. 30	·1100					
			***					
		11. 36	·1105					
			***					
		11. 47	·1099					
			***					
		11. 58	·1117					
			***					
		12. 8	·1099					
			***					
		12. 15	·1100					
			***					
		12. 19	·1104					
			***					
		12. 25	·1097					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 17		Dec. 17						
h m	° ′ ″	h m		h m		h m	°	°
		12. 42	·1103					
			***					
		12. 53	·1124					
			***					
		13. 5	·1095					
			***					
		13. 24	·1103					
			***					
		13. 30	·1109					
			***					
		14. 8	·1109					
			***					
		14. 16	·1107					
			***					
		14. 34	·1093					
			***					
		14. 39	·1118					
			***					
		14. 49	·1095					
			***					
		14. 56	·1098					
			***					
		15. 2	·1106					
			***					
		15. 23	·1095					
			***					
		15. 28	·1104					
			***					
		15. 39	·1112					
			***					
		16. 7	·1106					
			***					
		16. 36	·1112					
			***					
		17. 17	·1107					
			***					
		17. 40	·1117					
			***					
		19. 7	·1114					
			***					
		19. 51	·1118					
			***					
		21. 48	·1106					
			***					
		21. 57	·1114					
			***					
		22. 54	·1102					
			***					
		23. 43	·1098					
			***					
		23. 59	·1101					
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
0. 0	21. 36. 20	0. 0	·1101	0. 0	·01082	1. 40	57 ·5	56 ·5
	***		***	0. 40	·01080	3. 40	59 ·2	60 ·0
2. 7	37. 10	0. 12	·1102	3. 45	·00976	9. 40	57 ·2	56 ·2
2. 27	33. 20		***		·01160	21. 40	52 ·0	52 ·8
2. 33	36. 10	0. 23	·1111	4. 37	·01157			
2. 44	34. 30		***	11. 0	·01375			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol ; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 18		Dec. 18		Dec. 18		h m	°	°
h m	° ′ ″	h m		h m				
2. 57	21. 35. 30	0. 29	·1106	14. 54	·01437			
3. 2	34. 40		***	15. 40	·01404			
3. 10	36. 30	1. 37	·1101	22. 55	·01355			
3. 34	34. 0		***	23. 59	·01367			
3. 44	34. 0	3. 7	·1106					
4. 0	32. 30		***					
4. 17	32. 30	3. 15	·1116					
4. 32	33. 30		***					
5. 40	31. 30	3. 43	·1114					
7. 45	32. 20		***					
10. 29	31. 40	3. 54	·1116					
	***		***					
13. 44	32. 20	4. 3	·1106					
14. 14	38. 20		***					
14. 30	37. 40	5. 45	·1109					
14. 43	34. 20		***					
	***	10. 0	·1126					
15. 25	33. 20		***					
15. 48	31. 40	10. 24	·1123					
16. 0	33. 20		***					
	***	14. 37	·1132					
18. 29	32. 50		***					
18. 41	33. 20	14. 49	·1136					
19. 44	33. 20		***					
19. 53	32. 55	14. 53	·1133					
20. 7	33. 30		***					
20. 16	33. 0	15. 0	·1140					
21. 12	33. 55		***					
21. 42	32. 20	15. 7	·1140					
23. 59	35. 30		***					
		15. 13	·1134					
			***					
		16. 56	·1132					
			***					
		17. 1	·1138					
			***					
		17. 8	·1131					
			***					
		17. 14	·1136					
			***					
		18. 0	·1140					
			***					
		20. 51	·1141					
			***					
		21. 0	·1134					
			***					
		21. 15	·1138					
			***					
		21. 50	·1130					
			***					
		22. 6	·1134					
			***					
		23. 0	·1122					
			***					
		23. 59	·1122					
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 0	21. 35. 30	0. 0	·1122	0. 0	·01360	1. 40	53 ·0	53 ·3
	***		***	1. 53	·01354	3. 40	55 ·0	55 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
h m	° ′ ″	h m		h m		h m	°	°
3. 42	21. 33. 30	0. 30	·1124	2. 40	·01315	9. 40	52 ·4	53 ·0
	***	1. 40	·1126	5. 4	·01069	23. 15	44 ·8	46 ·5
4. 46	31. 0	2. 26	·1130	7. 10	·00996			
5. 14	32. 0	2. 34	·1126	8. 30	·01003			
5. 30	31. 10	2. 51	·1133	13. 9	·01317			
6. 42	32. 0	3. 0	·1126		·01278			
7. 0	32. 40	3. 31	·1134	20. 26	·01196			
7. 30	30. 5	3. 40	·1126	23. 26	·01198			
8. 12	32. 40	4. 0	·1130		(†)			
9. 17	30. 50	4. 6	·1138					
9. 40	32. 0	4. 9	·1134					
14. 42	33. 20	4. 19	·1138					
17. 49	33. 30	4. 42	·1129					
18. 15	35. 10	4. 54	·1136					
18. 39	32. 30	5. 0	·1132					
19. 7	33. 30	6. 43	·1140					
21. 20	33. 40	7. 0	·1136					
21. 42	32. 20	7. 41	·1146					
21. 58	33. 30	9. 40	·1137					
22. 30	33. 0	12. 15	·1147					
22. 52	33. 50		***					
23. 30	33. 50	20. 11	·1162					
			***					
		21. 8	·1156					
		21. 17	·1161					
		21. 40	·1157					
		21. 54	·1161					
		22. 49	·1149					
		23. 24	·1150					
			(†)					
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 0	21. 34. 30		(†)	6. 48	·00850*	6. 46	47 ·5	49 ·5
2. 11	37. 20	0. 24	·1151	21. 40	·00517*	12. 40	47 ·8	49 ·7
2. 30	36. 5	1. 7	·1148			13. 40	48 ·0	49 ·2
3. 5	36. 0	1. 39	·1158			14. 40	48 ·0	49 ·2
3. 15	36. 30	2. 0	·1157			15. 40	48 ·2	49 ·3
3. 36	35. 30	2. 30	·1165			16. 40	48 ·5	49 ·6
3. 53	38. 0	2. 54	·1160			17. 40	48 ·8	50 ·0
4. 12	36. 20	3. 11	·1163			18. 40	50 ·0	50 ·4
4. 26	37. 45	3. 36	·1160			19. 40	50 ·7	50 ·8
4. 45	34. 30	3. 47	·1162			20. 40	51 ·2	51 ·6
5. 23	35. 5	3. 53	·1154			21. 40	52 ·2	52 ·2
5. 40	33. 20	4. 17	·1154			22. 40	52 ·6	52 ·8
6. 13	34. 20	4. 22	·1158			23. 40	53 ·9	53 ·2
6. 25	32. 40	4. 35	·1154					
8. 52	31. 20	4. 41	·1157					
10. 41	30. 50	5. 0	·1152					
10. 57	29. 50	5. 26	·1157					
11. 24	30. 30	5. 35	·1170					
12. 43	29. 30	5. 49	·1165					
13. 10	28. 30	5. 54	·1157					
13. 29	30. 30	6. 15	·1157					
14. 13	31. 20	6. 34	·1161					
14. 29	32. 40	6. 50	·1157					
	***	10. 45	·1156					
15. 45	32. 45	10. 54	·1161					
16. 7	32. 0	11. 22	·1154					
17. 15	31. 10	12. 7	·1156					

For the Horizontal and Vertical Forces, increasing readings denote increasing force

December 20. Vertical Force. There was no Photographic Trace of the movements of the Vertical Force Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 20		Dec. 20						
h m	° ′ ″	h m		h m		h m	°	°
17. 36	21. 32. 20	12. 23	·1150					
18. 21	32. 40	12. 42	·1161					
18. 45	31. 10	13. 40	·1154					
18. 56	31. 55	14. 36	·1144					
20. 11	30. 0	14. 52	·1138					
20. 22	30. 50	15. 26	·1138					
20. 40	29. 50	16. 0	·1132					
22. 40	34. 30	16. 45	·1135					
23. 18	34. 30	18. 12	·1143					
	(†)	18. 46	·1136					
		19. 10	·1142					
		20. 35	·1138					
		20. 48	·1134					
		20. 53	·1138					
		21. 51	·1128					
		23. 30	·1130					
			(†)					
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
	(†)		(†)		(†)			
1. 39	21. 34. 30	1. 0	·1126	0. 55	·00640	0. 40	54 ·5	53 ·6
	***	1. 53	·1130	1. 40	·00662	1. 40	55 ·2	54 ·4
3. 23	33. 50	3. 6	·1128		·00996	2. 40	56 ·2	55 ·5
	***	3. 42	·1140	2. 34	·00953	3. 40	57 ·5	56 ·2
3. 35	34. 45	4. 11	·1131		·01039	4. 40	57 ·6	56 ·6
	***	4. 30	·1135	5. 9	·00801	5. 40	58 ·0	57 ·1
6. 11	33. 30	4. 50	·1129	10. 15	·00794	6. 40	58 ·4	57 ·3
6. 33	34. 20	5. 28	·1134	14. 54	·00780	7. 40	59 ·0	57 ·6
7. 10	34. 0	6. 10	·1131	15. 21	·00844	8. 40	59 ·3	57 ·8
8. 7	30. 30	6. 52	·1134	19. 14	·00902	9. 40	59 ·4	57 ·8
8. 19	32. 0	7. 32	·1126	23. 59	·01160	10. 40	59 ·0	58 ·0
8. 44	32. 0	8. 9	·1129			11. 40	59 ·0	57 ·8
9. 15	30. 40	8. 24	·1124			21. 47	56 ·2	55 ·4
10. 25	29. 50	9. 52	·1133					
10. 42	31. 20	11. 0	·1126					
11. 11	29. 50		***					
	***	21. 24	·1146					
16. 12	32. 20	23. 35	·1131					
22. 50	32. 30	23. 59	·1132					
23. 43	34. 20							
23. 59	33. 45							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
0. 0	21. 33. 45	0. 0	·1132	0. 0	·01180	1. 40	57 ·0	56 ·0
0. 30	33. 30		***	1. 30	·01217	3. 40	57 ·6	56 ·5
1. 35	34. 45	0. 51	·1130	4. 7	·01106	9. 40	58 ·0	57 ·5
5. 4	31. 40		***	6. 30	·00954	21. 48	56 ·0	56 ·4
6. 15	31. 20	2. 37	·1138	9. 49:	·00872			
6. 28	31. 45		***	19. 53:	·00840			
7. 5	31. 20	3. 24	·1136	23. 59	·00892			
7. 45	28. 0		***					
8. 40	30. 5	5. 0	·1145					
9. 36	30. 30		***					
9. 52	29. 0	7. 43	·1140					
10. 39	29. 5		***					
10. 48	30. 15	8. 6	·1144					
12. 13	28. 40		***					
12. 41	29. 0	9. 38	·1136					
13. 11	28. 20		***					
13. 41	31. 30	10. 21	·1143					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 22		Dec. 22						
h m	° ′ ″	h m		h m		h m	°	°
13. 57	21. 30. 30	10. 37	·1148					
	***		***					
15. 11	31. 50	10. 54	·1141					
15. 20	32. 50		***					
17. 11	31. 45	11. 6	·1144					
	***		***					
21. 8	31. 50	11. 15	·1141					
21. 50	38. 50		***					
22. 0	38. 20	11. 46	·1146					
22. 17	41. 20		***					
23. 41	41. 25	12. 9	·1142					
23. 59	38. 30		***					
		12. 38	·1145					
			***					
		12. 52	·1142					
			***					
		16. 30	·1143					
		19. 57	·1135					
		20. 15	·1148					
		20. 44	·1149					
		21. 24	·1139					
		21. 48	·1141					
		22. 30	·1122					
		23. 6	·1130					
		23. 59	·1128					
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 0	21. 38. 25	0. 0	·1128	0. 0	·00890	1. 40	58 ·8	57 ·8
2. 10	29. 10	0. 11	·1130	1. 30	·00860	3. 40	60 ·3	58 ·7
2. 36	30. 30	0. 30	·1124	1. 42	·00862	9. 44	59 ·4	58 ·7
2. 45	29. 50	2. 24	·1133		·01060	21. 40	55 ·0	55 ·7
3. 44	31. 10	4. 0	·1122	2. 30	·01042			
4. 10	32. 45	4. 21	·1102	4. 9	·01214			
4. 32	31. 15	4. 51	·1106	6. 0	·01279			
4. 59	26. 50	5. 30	·1122	6. 46	·01365			
5. 19	29. 0	5. 41	·1119	7. 51	·01377			
5. 28	28. 40	5. 47	·1124	8. 20	·01421			
5. 39	30. 20	5. 52	·1118	12. 38	·01519			
5. 48	29. 40	6. 13	·1121	13. 9	·01482			
6. 7	29. 50	6. 37	·1102	18. 45	·01430			
6. 25	31. 30	7. 2	·1126	23. 34	·01467			
6. 58	22. 30	7. 10	·1126		(†)			
7. 9	26. 50	7. 21	·1118					
7. 25	18. 0	7. 29	·1133					
7. 30	19. 0	7. 31	·1131					
7. 40	18. 5	7. 45	·1131					
7. 53	22. 50	8. 0	·1112					
8. 10	16. 50	8. 20	·1111					
8. 22	17. 0	8. 30	·1120					
8. 47	24. 20	9. 14	·1113					
9. 13	21. 30	9. 35	·1126					
10. 28	22. 30	10. 15	·1121					
10. 43	23. 25	10. 37	·1126					
11. 0	22. 20	10. 59	·1123					
11. 21	24. 5	11. 10	·1127					
12. 10	22. 0	11. 29	·1130					
13. 5	24. 40	11. 54	·1120					
13. 14	24. 10	12. 7	·1121					
14. 14	28. 15	12. 26	·1128					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 23		Dec. 23						
h m	° ′ ″	h m		h m		h m	°	°
14. 41	21. 28. 0	12. 42	·1144					
15. 30	29. 30	13. 5	·1131					
16. 30	21. 50	13. 28	·1129					
17. 44	28. 50	14. 6	·1134					
18. 25	27. 0	14. 13	·1132					
19. 52	33. 0	14. 53	·1138					
20. 45	33. 0	15. 15	·1135					
21. 27	30. 50	16. 14	·1152					
21. 54	30. 30	17. 30	·1146					
22. 31	32. 40	18. 36	·1157					
23. 9	32. 40	19. 30	·1144					
23. 29	33. 50	20. 0	·1145					
	(†)	21. 5	·1138					
		22. 0	·1123					
		23. 39	·1120					
			(†)					
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
	(†)		(†)	0. 0	·01427	1. 40	56 ·3	56 ·4
0. 28	21. 39. 10	0. 23	·1120	3. 0	·01407	3. 40	59 ·0	57 ·8
1. 24	40. 50	1. 30	·1119	5. 15	·01234	9. 40	57 ·0	56 ·4
1. 41	40. 20	2. 0	·1123		·01376	23. 5	53 ·5	53 ·8
2. 12	41. 10	2. 27	·1118	6. 12	·01353			
3. 25	38. 50	3. 37	·1114	7. 39	·01419			
3. 43	37. 20	8. 24	·1130	10. 14	·01494			
4. 3	36. 50	10. 30	·1126		·01460			
4. 26	35. 10	11. 22	·1134	15. 40	·01408			
5. 12	33. 50	12. 0	·1132	23. 59	·01409			
5. 40	34. 0	13. 3	·1137					
7. 10	30. 30	13. 39	·1136					
8. 23	31. 10	14. 19	·1145					
8. 46	30. 30	15. 26	·1141					
9. 25	30. 45	17. 55	·1143					
10. 43	29. 40	18. 17	·1149					
11. 15	31. 10	18. 42	·1147					
12. 40	31. 5	19. 25	·1155					
13. 39	32. 40	23. 26	·1143					
13. 59	31. 40	23. 59	·1144					
14. 17	31. 45							
14. 37	29. 45							
16. 13	32. 20							
16. 37	31. 45							
17. 1	32. 10							
17. 37	34. 40							
17. 58	34. 0							
18. 9	34 30							
18. 27	33. 15							
19. 12	35. 15							
19. 35	34. 35							
19. 55	34. 40							
20. 13	33. 45							
22. 43	34. 20							
23. 30	36. 50							
23. 59	36. 30							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	21. 36. 0	0. 0	·1142	0. 0	·01400	10. 18	52 ·2	53 ·8
0. 30	36. 0	0. 27	·1136	0. 15	·01396	21. 40	47 ·0	48 ·4
0. 49	37. 50	4. 48	·1141	2. 46	·01412			
1. 30	35. 0	5. 29	·1148	6. 20	·01281			
2. 29	35. 50	5. 50	·1146	9. 5	·01274			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 25		Dec. 25		Dec. 25				
h m	° ′ ″	h m		h m		h m	°	°
2. 52	21. 34. 50	10. 18	·1151					
3. 18	34. 50	10. 57	·1146	12. 41	·01402			
4. 40	32. 45	11. 56	·1152		·01354			
4. 53	32. 40	15. 20	·1154	18. 35	·01267			
5. 33	31. 0	18. 17	·1163	23. 59	·01200			
6. 0	32. 0	19. 10	·1160					
8. 29	31. 30	22. 48	·1144					
8. 50	30. 30	23. 0	·1140					
9. 48	31. 10	23. 59	·1144					
10. 2	30. 30							
10. 9	31. 20							
10. 24	30. 50							
11. 35	33. 0							
12. 4	33. 0							
12. 31	33. 50							
14. 9	33. 50							
14. 48	34. 45							
16. 27	33. 10							
19. 29	33. 50							
19. 38	33. 5							
19. 50	33. 50							
20. 48	32. 40							
21. 13	32. 50							
22. 26	34. 45							
23. 23	34. 45							
23. 43	35. 20							
23. 59	35. 0							
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
	(†)		(†)		(†)	1. 40	49 ·2	50 ·2
1. 40	21. 35. 3*	1. 40	·1134*	1. 40	·01180*	3. 40	52 ·0	51 ·6
3. 40	32. 22*	3. 40	·1144*	3. 40	·01031*	9. 40	51 ·0	51 ·0
9. 32	31. 0	9. 40	·1144	9. 32	·00721	22. 50	48 ·0	49 ·4
9. 59	28. 20	9. 54	·1149	10. 49	·00775			
10. 27	30. 50	10. 9	·1145	11. 20	·00783			
12. 59	31. 50	15. 30	·1158	16. 0	·00736			
15. 11	32. 30	16. 30	·1166	18. 9	·00754			
15. 18	32. 20	20. 26	·1170	23. 26	·00863			
15. 43	32. 35	22. 10	·1177	23. 59	·00895			
15. 54	33. 20	23. 59	·1157					
16. 48	31. 30							
17. 10	31. 45							
17. 29	31. 20							
17. 48	31. 30							
18. 0	31. 0							
18. 21	31. 40							
20. 13	31. 30							
20. 27	30. 30							
21. 15	32. 30							
22. 28	33. 30							
22. 37	34. 40							
	***							
23. 59	35. 45							
Dec. 27		Dec. 27		Dec. 27		Dec. 27		
0. 0	21. 35. 45	0. 0	·1157	0. 0	·00895	6. 50	51 ·0	51 ·5
	***	0. 46	·1161	2. 49	·00951	12. 40	46 ·6	47 ·0
0. 48	37. 30	1. 5	·1148	8. 52	·00926	13. 40	46 ·6	47 ·0
1. 3	34. 30	1. 10	·1152	9. 24	·00955	14. 40	47 ·0	47 ·3
1. 15	36. 30	1. 42	·1148	11. 42	·00960	15. 40	47 ·1	47 ·5
1. 41	34. 10	2. 21	·1153	14. 6	·01036	16. 40	47 ·7	48 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.
December 24 and 25. The times of the Vertical Force indications are liable to an error of a few minutes.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force on the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. (H. F. Magnet.)	Readings of Thermometers. (V. F. Magnet.)
Dec. 27		Dec. 27		Dec. 27		Dec. 27		
h m	° ′ ″	h m		h m		h m	°	°
4. 53	21. 35. 30	4. 37	·1152	17. 0	·01070	17. 40	48·1	48·0
5. 31	26. 0	5. 0	·1138	20. 54	·00946	18. 40	48·2	48·2
6. 4	30. 25	5. 15	·1151	22. 45	·00949	19. 40	48·3	48·3
6. 18	30. 30	5. 41	·1147	23. 59	·01024	20. 40	48·4	48·4
6. 30	31. 5	6. 7	·1140			21. 40	48·4	48·6
6. 52	29. 45	8. 0	·1143			22. 40	48·5	48·5
7. 0	30. 40	8. 38	·1127			23. 40	48·5	48·5
7. 28	27. 0	8. 53	·1132					
7. 59	29. 0	9. 9	·1126					
8. 11	30. 30	9. 22	·1133					
8. 45	28. 45	10. 46	·1138					
9. 10	26. 30	11. 15	·1131					
10. 11	15. 30	12. 0	·1136					
10. 29	19. 0	12. 30	·1138					
10. 43	17. 40	12. 44	·1141					
10. 47	18. 30	12. 54	·1144					
11. 4	16. 30	11. 7	·1135					
11. 45	19. 50	11. 24	·1134					
12. 25	20. 20	11. 37	·1141					
12. 41	23. 0	12. 0	·1135					
12. 57	22. 40	12. 22	·1142					
13. 12	21. 0	12. 55	·1132					
13. 25	23. 0	13. 10	·1142					
13. 36	23. 20	13. 43	·1143					
13. 45	25. 30	14. 2	·1146					
14. 12	21. 40	14. 13	·1144					
14. 39	28. 10	14. 58	·1148					
14. 54	20. 50	15. 9	·1152					
15. 33	26. 20	15. 45	·1144					
16. 44	25. 30	15. 53	·1148					
17. 9	27. 30	16. 35	·1145					
17. 27	25. 30	18. 21	·1167					
19. 0	42. 20	22. 0	·1145					
19. 58	43. 15	20. 49	·1134					
20. 40	48. 20	21. 10	·1136					
21. 7	46. 20	21. 28	·1153					
21. 13	46. 30	21. 30	·1135					
22. 6	48. 50	22. 0	·1119					
22. 39	44. 50	22. 50	·1115					
23. 29	41. 20	23. 21	·1113					
23. 59	42. 45	23. 59	·1118					
Dec. 28		Dec. 28		Dec. 28		Dec. 28		
0. 0	21. 42. 45	0. 0	·1118	0. 0	·01004	0. 40	48·0	48·1
0. 16	43. 30	0. 28	·1120	1. 12	·01000	1. 40	48·8	48·8
1. 10	38. 50	1. 37	·1144	2. 46	·01075	2. 40	49·3	49·5
1. 24	38. 50	1. 53	·1140	2. 54	·01070	3. 40	49·7	49·6
1. 42	40. 30	2. 5	·1141	4. 8	·00960	4. 40	50·1	50·8
1. 55	39. 40	2. 37	·1132	4. 39	·00954	5. 40	51·2	51·2
2. 6	40. 10	2. 52	·1138	5. 45	·00875	6. 40	51·5	51·7
2. 43	38. 0	4. 53	·1135	7. 20	·00835	7. 40	51·7	52·0
3. 28	38. 10	5. 14	·1126	13. 0	·00510	8. 40	52·0	52·2
3. 35	38. 40	5. 35	·1128	15. 53	·00469	9. 40	52·0	52·2
3. 45	37. 50	6. 4	·1137	18. 45	·00484	10. 40	52·4	52·5
4. 39	37. 10	6. 7	·1135	21. 20	·00554	11. 40	52·5	52·5
5. 25	31. 30	6. 15	·1130			21. 40	52·2	51·2
6. 27	43. 0	6. 40	·1123					
6. 54	37. 30	6. 56	·1132					
7. 26	41. 50	7. 51	·1096					
8. 12	32. 0	8. 20	·1105					
Dec. 28		Dec. 28		Dec. 28		Dec. 29		
8. 22	21. 32. 20	8. 30	·1105					
8. 42	28. 30	9. 44	·1115					
9. 22	27. 30	10. 19	·1115					
		10. 32	·1121					
10. 44	29. 0	10. 39	·1118					
11. 14	25. 15	11. 23	·1125					
11. 27	24. 0	11. 32	·1120					
11. 37	25. 10	11. 53	·1120					
11. 45	24. 30	12. 37	·1129					
12. 7	25. 50	14. 15	·1129					
12. 38	26. 0							
14. 10	30. 5	20. 0	·1147					
14. 27	29. 15	20. 40	·1140					
16. 0	32. 0	22. 13	·1141					
16. 45	31. 30							
19. 14	31. 30							
20. 24	30. 50							
20. 31	29. 50							
21. 27	29. 50							
22. 15	31. 30							
					Dec. 29		Dec. 29	
					0. 0	·00620	1. 40	53·0
					2. 23	·00485	3. 40	53·6
					5. 24	·00555	9. 40	53·7
						·00627	21. 40	49·0
					6. 38	·00601		
					11. 0	·00656		
					15. 9	·00835		
					18. 30	·01015		
					21. 37	·01267		
						·01143		
					23. 59	·01219		
					Dec. 30		Dec. 30	
					0. 0	·01219	1. 40	50·0
					1. 35	·01238	3. 40	51·6
					3. 10	·01176	9. 40	51·8
					6. 23	·00864	21. 40	47·3
					8. 30	·00760		
					10. 30	·00741		
					14. 53	·00845		
					19. 54	·01216		
						·01176		
					22. 37	·01184		
					23. 59	·01200		
					Dec. 31		Dec. 31	
					0. 0	·01200	1. 40	47·6
					1. 27	·01215	3. 40	49·3
					3. 34	·01119	9. 40	50·7
					6. 40	·00736	21. 40	45·2
					7. 36	·00657		
					9. 9	·00613		
					11. 15	·00636		
					13. 6	·00737		
					17. 56	·01157		
						·01147		
					23. 59	·01105		

The Declinations are obtained from the curves of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the Declinometer in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (-) notes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable interval of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

December 29, 22h. 15m. The annual examination of the adjustments of the Declination and Horizontal Force Magnets was commenced.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1857.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

Needle A 1 Barrow was in use till August 28.

Needle A 2 Barrow was in use throughout the year.

Needle A 1 Dent was in use from October 21.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1857.

Day and Approximate Hour, 1857.		Magnetic Dip.	Needle.	Observer.
	d h	° ′		
February	11. 21	68. 35 ·00	A 1	N
	16. 21	68. 36 ·00	A 1	H C
	18. 3	68. 34 ·00	A 1	N
	18. 21	68. 32 ·50	A 2	E J H
	20. 2	68. 19 ·00	A 2	H C
	20. 22	68. 27 ·25	A 1	T D
	23. 0	68. 32 ·25	A 2	J G
	24. 3	68. 29 ·75	A 2	J G
	25. 3	68. 34 ·75	A 2	H C
	26. 21	68. 33 ·00	A 2	H C
	28. 3	68. 29 ·00	A 2	E J H
March	3. 0	68. 33 ·75	A 2	H C
	4. 3	68. 31 ·25	A 2	T D
	4. 21	68. 31 ·25	A 2	T D
	6. 3	68. 36 ·50	A 2	H C
	6. 22	68. 31 ·00	A 2	H C
	12. 23	68. 27 ·00	A 2	J G
	13. 0	68. 27 ·50	A 2	H C
	13. 22	68. 29 ·50	A 2	H C
	16. 21	68. 30 ·00	A 2	H C
	20. 1	68. 30 ·50	A 2	H C
	23. 1	68. 31 ·50	A 2	H C
	24. 0	68. 30 ·00	A 2	H C
	25. 22	68. 29 ·25	A 2	H C
April	6. 1	68. 31 ·50	A 2	H C
	6. 22	68. 30 ·25	A 2	H C
	8. 1	68. 30 ·25	A 2	H C
	8. 21	68. 31 ·25	A 2	H C
	11. 0	68. 32 ·50	A 2	H C
	15. 0	68. 31 ·25	A 2	H C
	16. 1	68. 32 ·50	A 1	H C
	17. 21	68. 35 ·00	A 1	H C
	19. 22	68. 32 ·25	A 2	H C
	24. 21	68. 33 ·50	A 2	H C
	28. 23	68. 35 ·25	A 1	H C
	29. 0	68. 34 ·00	A 2	H C
May	1. 6	68. 32 ·75	A 2	H C
	3. 21	68. 31 ·75	A 2	H C
	5. 21	68. 33 ·00	A 2	H C
	15. 23	68. 40 ·25	A 1	H C
	20. 23	68. 31 ·25	A 2	H C
	29. 22	68. 30 ·50	A 2	H C
June	18. 1	68. 30 ·75	A 2	H C
	23. 21	68. 30 ·50	A 2	H C
	24. 23	68. 30 ·00	A 2	H C
	30. 0	68. 26 ·48	A 2	H C
July	0. 22	68. 37 ·66	A 1	H C
	7. 22	68. 28 ·57	A 2	H C
	13. 22	68. 41 ·97	A 1	H C
	13. 23	68. 28 ·53	A 2	H C
	20. 23	68. 35 ·22	A 1	T D
	21. 23	68. 29 ·17	A 2	T D
	28. 22	68. 42 ·02	A 2	T D
August	6. 0	68. 31 ·58	A 2	H C
	11. 21	68. 35 ·21	A 1	T D
	12. 22	68. 34 ·55	A 1	H C
	18. 1	68. 33 ·92	A 1	H C
	18. 23	68. 33 ·23	A 1	T D
	19. 23	68. 30 ·53	A 2	H C
	20. 22	68. 24 ·48	A 2	T D
	25. 23	68. 32 ·75	A 1	T D
	27. 21	68. 37 ·33	A 1	H C
	28. 21	68. 33 ·75	A 2	H C
September	5. 2	68. 34 ·50	A 2	T D
	8. 22	68. 32 ·75	A 2	T D
	15. 23	68. 32 ·50	A 2	T D
	28. 22	68. 28 ·25	A 2	H C
October	2. 1	68. 30 ·00	A 2	H C
	19. 1	68. 26 ·00	A 2	H C
	20. 21	68. 19 ·50	A 1	H C
	22. 0	68. 18 ·50	A 1	T D
November	2. 22	68. 18 ·25	A 1	T D
	19. 0	68. 31 ·25	A 2	H C
	27. 0	68. 17 ·88	A 1	H C
December	3. 22	68. 30 ·00	A 2	T D
	3. 23	68. 32 ·75	A 2	T D
	17. 22	68. 30 ·50	A 2	H C

August 27d. 21h. After this observation Needle A 1 Barrow was sent to Mr. Dent to have a new axis; whilst in his hands it was broken. Another Needle was ordered in its place, and the Dip-Instrument was at Mr. Dent's from October 2 to 19. Needle A 1 Dent was received at the Observatory on October 20.

October 19d. 1h. A damp morning.

The Observers of this Magnetic Dip were respectively Mr. Glaisher and Mr. Downs, See page (iv); Mr. Henry Criswick, Mr. William Carpenter Nash, and Mr. Edward John Hallam; their initials are J G, T D, H C, N, and E J H.

Monthly Means of Magnetic Dips, at the Royal Observatory, Greenwich, in the Year 1857.

1857. Month.	Barrow. A 1.	Number of Observations.	Barrow, A 2.	Number of Observations.	Dent, A 1.	Number of Observations.
	° ′		° ′		° ′	
February	68. 33 ·06	4	68. 30 ·04	7	....	..
March	....	..	68. 30 ·85	13	....	..
April	68. 34 ·25	3	68. 31 ·87	9	....	..
May	68. 40 ·25	1	68. 31 ·85	5	....	..
June	....	..	68. 29 ·43	4	....	..
July	68. 38 ·28	3	68. 32 ·07	4	....	..
August	68. 34 ·50	6	68. 30 ·83	4	....	..
September	....	..	68. 32 ·00	4	....	..
October	....	..	68. 28 ·00	2	68. 19 ·00	2
November	....	..	68. 31 ·25	1	68. 18 ·07	2
December	....	..	68. 31 ·08	3	....	..
Mean	....	..	68. 30 ·84	..	....	..

As there appeared to be no marked difference between observations taken at 21^h and 3^h, the monthly means have been taken irrespectively of the hours of observation.

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1857.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The Magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formulæ of computation

$$\frac{m}{X} = \tfrac{1}{2}\, a$$

$$m\,X = \frac{\pi^2\, K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion, when the Deflecting Magnet is in the Axial Position, is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m\,X$ given by the vibration determines the value of X.

ABSTRACT of the OBSERVATIONS of DEFLEXION of a MAGNET for ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1857.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.	Observer.
January 22	Lateral Axial Lateral Axial	1. 0 1. 6	39·0	8. 41. 4·67 4. 38. 0·08 2. 37. 1·75 1. 19. 34. 94	5·800 5·825	100	38·0 39·8	H C
February 4	Lateral Axial Lateral Axial	1. 0 1. 6	35·0	8. 43. 8·28 4. 40. 37·28 2. 36. 49·14 1. 18. 58·41	5·814 5·805	100 100	32·5 36·5	H C
March 18	Lateral Axial Lateral Axial	1. 0 1. 6	63·5	8. 46. 0·57 4. 41. 41·97 2. 37. 42·94 1. 20. 42·23	5·824 5·800	100 100	64·1 65·3	H C
April 28	Lateral Axial Lateral Axial	1. 0 1. 6	45·0	8. 56. 33·13 4. 48. 50·07 2. 39. 16·08 1. 22. 19·33	5·772 5·803	100 100	43·3 44·2	H C
May 13	Lateral Axial Lateral Axial	1. 0 1. 6	69·0	8. 51. 28·91 4. 47. 19·39 2. 39. 41·96 1. 19. 37·41	5·797 5·797	100 100	69·8 69·7	H C
June 3	Lateral Axial Lateral Axial	1. 0 1. 6	68·4	8. 47. 12·55 4. 38. 21·27 2. 39. 19·84 1. 20. 1·49	5·785 5·821	100 100	59·7 67·6	H C
August 27	Lateral Axial Lateral Axial	1. 0 1. 6	78·8	8. 34. 7·50 4. 34. 8·45 2. 34. 11·40 1. 19. 36·11	5·836 5·857	100 100	70·7 79·4	H C
Sept. 25	Lateral Axial Lateral Axial	1. 0 1. 6	67·2	8. 35. 23·19 4. 36. 28·36 2. 35. 39·49 1. 19. 55·01	5·851 5·848	100 100	69·6 67·3	H C
October 27	Lateral Axial Lateral Axial	1. 0 1. 6	59·4	8. 32. 16·34 4. 36. 51·42 2. 34. 46·16 1. 21. 16·84	5·846 5·816	100 100	56·7 61·5	H C
December 9	Lateral Axial Lateral Axial	1. 0 1. 6	45·1	8. 36. 49·95 4. 36. 15·64 2. 35. 53·74 1. 19. 40·48	5·820 5·831	100 100	45·0 45·0	H C

The initials H C are those of Mr. Henry Criswick, see page (cxxxiii).

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1857.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Value of b $-0{\cdot}00450$ to June, and $-0{\cdot}00606$ from August.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.
January 22	+0·15660	−0·00360	−0·00450	0·07600	0·00478	+0·15171	8·89109	s 5·813	0·05974	3·840	0·299
February 4	+0·15575	−0·00416		0·07431	0·00723	+0·15212	8·89222	5·810	0·06019	3·837	0·299
March 18	+0·15668	−0·00427		0·07713	0·00472	+0·15295	8·89454	5·812	0·05989	3·825	0·300
April 28	+0·15700	−0·00156		0·07832	0·00560	+0·15364	8·90190	5·788	0·06348	3·809	0·304
May 13	+0·15892	−0·00493		0·07391	0·00957	+0·15462	8·89913	5·797	0·06213	3·815	0·302
June 3	+0·15925	−0·00649		0·07670	0·00418	+0·15358	8·89629	5·803	0·06123	3·824	0·301
August 27	+0·15307	−0·00393	−0·00551	0·07693	0·00273	+0·14964	8·88912	5·847	0·05467	3·826	0·296
September 25	+0·15549	−0·00613		0·07694	0·00340	+0·15014	8·89050	5·850	0·05423	3·818	0·297
October 27	+0·15464	−0·00618		0·07927	0·00118	+0·14925	8·88801	5·831	0·05705	3·842	0·297
December 9	+0·15557	−0·00579		0·07657	0·00370	+0·15051	8·89155	5·826	0·05780	3·829	0·298

Between the months of June and August, the whole of the Deflexion apparatus was taken down and thoroughly repaired.

The value of b employed in the reductions from January to June, namely, $-0{\cdot}00450$, is the mean of the apparent values of b, from the observations taken between these times, and that used in the reductions from August to December, namely, $-0{\cdot}00606$, is the mean from the observations taken between 1857, August, and 1858, April.

VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE, from OBSERVATIONS of VIBRATION of the DEFLECTING MAGNET $\frac{D}{X}$, unaccompanied by DEFLEXION.

Month and Day, 1857.		Adopted Time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.	Observer.
January	30	s 5·807	31·4	0·06064	0·299	3·846	N
February	12	5·815	37·0	0·05944	0·299	3·835	N
	21	5·790	45·0	0·06318	0·299	3·868	N
	26	5·817	46·0	0·05914	0·299	3·832	N
March	17	5·780	48·0	0·06468	0·300	3·869	N
May	15	5·788	76·0	0·06348	0·302	3·832	N
	28	5·801	71·2	0·06153	0·301	3·828	N
June	2	5·778	68·1	0·06499	0·301	3·859	N
	3	5·820	70·5	0·05869	0·301	3·803	N
August	19	5·832	71·3	0·05691	0·296	3·851	H C
	26	5·856	75·6	0·05334	0·296	3·820	N
	26	5·853	76·2	0·05378	0·296	3·824	N
September	29	5·845	61·3	0·05527	0·297	3·824	N
October	14	5·843	63·5	0·05527	0·297	3·824	N
November	21	5·832	52·0	0·05691	0·297	3·838	N
December	5	5·830	49·7	0·05720	0·298	3·828	N
	5	5·834	50·8	0·05661	0·298	3·823	N

The number of vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1857.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays, and on Good Friday and Christmas Day, on which days fewer observations have been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II. (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading, by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometers used for determining the highest temperature of the air, and the highest state of the wet-bulb thermometer, are mercurial thermometers invented by Messrs. Negretti and Zambra, and described in the *Results of Meteorological Observations*, 1851, Introduction, page (xcvi); and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they are self-registering. The readings given are corrected for index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

A mean daily reading of the dry thermometer is inferred from the mean of observations taken at the same hours as the observations of the barometer, corrected by a quantity given in the *Phil. Trans.*, 1848, part I. Another mean daily reading is inferred from the mean of the maximum and minimum thermometers, also corrected by a small quantity given in the same paper. The mean daily value given in the tables is found by combining these two corrected means, giving them weights proportional to the number of observations from which they are respectively derived.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from the comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, from the year 1840 to the end of the year 1854).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·1	32	3·3	44	2·2	56	2·0	68	1·8	80	1·7
21	7·9	33	3·0	45	2·2	57	1·9	69	1·8	81	1·7
22	7·6	34	2·8	46	2·1	58	1·9	70	1·8	82	1·7
23	7·3	35	2·6	47	2·1	59	1·9	71	1·8	83	1·7
24	6·9	36	2·5	48	2·1	60	1·9	72	1·8	84	1·7
25	6·5	37	2·4	49	2·1	61	1·9	73	1·8	85	1·7
26	6·1	38	2·4	50	2·1	62	1·9	74	1·7	86	1·7
27	5·6	39	2·3	51	2·0	63	1·9	75	1·7	87	1·6
28	5·1	40	2·3	52	2·0	64	1·9	76	1·7	88	1·6
29	4·6	41	2·3	53	2·0	65	1·8	77	1·7	89	1·6
30	4·2	42	2·2	54	2·0	66	1·8	78	1·7	90	1·6
31	3·7	43	2·2	55	2·0	67	1·8	79	1·7		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. They are read at 21^h (9^h A.M.) every day; their readings are placed opposite to the day preceding the civil day on which the scales are actually read. The thermometer for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction: it is read at 9^h P.M. every evening.

The thermometer for the minimum temperature on the grass was out of order on May 15, 16, 19, 20, 21; June 1 to June 20, June 27; July 1, 2, July 6 to July 11, July 17, 18, 22, 24; August 5, 16, 17, 24, 26, 27, 29, 31; September 7, 16, 18, 21; October 3, 28; November 16, 30; December 8, 26.

The thermometer for the maximum temperature in the sun was out of order on May 17, 18, 2[illegible] ; July 14 ; August 31.

The thermometers for the maximum and minimum temperatures of the water of the Thames [illegible] not observed from January 25 to May 31 ; and again from August 30 to October 31.

The thermometer for the maximum temperature of the water of the Thames was out of order from July 24 to 28 ; that for the minimum was out of order from May 31 to June 2.

The mean daily value of the difference between dew-point temperature and air-temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, or they are found from the absolute maxima and minima, as determined by comparing the observations of the self-registering wet-bulb thermometers with those of the self-registering dry-bulb thermometers.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of forty-three years, is found by comparison with a table of results deduced by Mr. Glaisher from forty-three years' observations, made at the Royal Observatory, ending 1856.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary :—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given :—

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described : thus, s s is very strong ; v v, very variable.

The Clouds and Weather are described generally by Howard's Nomenclature ; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows :—

a denotes *aurora borealis*		hl denotes *hail*		shs-r denotes *showers of rain*		h-sqs denotes *heavy squalls*	
ci .. *cirrus*		so-ha .. *solar halo*		c-r .. *continued rain*		fr-h-sqs .. *frequent heavy squalls*	
ci-cu .. *cirro-cumulus*		l .. *lightning*		c-h-r .. *continued heavy rain*		sc .. *scud*	
ci-s .. *cirro-stratus*		li-cl .. *light clouds*		m-r .. *misty rain*		li-sc .. *light scud*	
cu .. *cumulus*		lu-co .. *lunar corona*		fr-m-r .. *frequent misty rain*		sl .. *sleet*	
cu-s .. *cumulo-stratus*		lu-ha .. *lunar halo*		sl-r .. *slight rain*		sn .. *snow*	
d .. *dew*		m .. *meteor*		h-shs .. *heavy showers*		sl-sn .. *slight snow*	
h-d .. *heavy dew*		ms .. *meteors*		fr-shs .. *frequent showers*		s .. *stratus*	
f .. *fog*		n .. *nimbus*		fr-h-shs .. *frequent heavy showers*		t .. *thunder*	
th-f .. *thick-fog*		r .. *rain*		li-shs .. *light showers*		t-s .. *thunder storm*	
fr .. *frost*		th-r .. *thin rain*		oc-shs .. *occasional showers*		v .. *variable*	
gt-glm *great gloom*		oc-r .. *occasional rain*		sq .. *squall*		w .. *wind*	
h-fr .. *hoar frost*		fr-r .. *frozen rain*		sqs .. *squalls*		st-w .. *strong wind*	
h .. *haze*		h-r .. *heavy rain*		fr-sqs .. *frequent squalls*			

The foot notes show the means and extremes of readings, and their departure in each month from average values, as found from the preceding Seventeen Years' Observations ; those relating to Humidity have been calculated from the Second Edition of Glaisher's Hygrometrical Tables.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (Corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer exposed at 9 A.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer exposed at 9 P.M.	In the Water of the Thames at Greenwich, by a Self-Registering Thermometer, exposed at 9 A.M. each morning. Highest.	In the Water of the Thames at Greenwich, by a Self-Registering Thermometer, exposed at 9 A.M. each morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 17 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Mean of 24 Obs.	Whewell's. Horizontal Amount of Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
Jan. 1	..	29·924	52·3	44·5	47·9	44·0	58·5	41·0	39·5	37·9	3·9	6·4	1·1	+ 11·4	WSW	SW	2·0	0·0	0·1	185	0·00
2	In Equator	29·611	52·7	41·2	43·9	37·7	51·5	35·8	41·0	39·3	6·2	9·6	0·7	+ 7·5	SW	W; SW	2·0	0·0	0·3	185	0·10
3	First Qr.	29·049	50·8	38·5	45·3	39·6	55·0	30·8	41·5	40·2	5·7	9·5	2·1	+ 8·9	S	SW	12·0	0·0	3·5	410	0·05
4	..	29·656	43·5	38·4	39·7	36·3	52·8	32·0	41·5	40·3	3·4	4·4	0·2	+ 3·4	SW	SW; NE	6·0	0·0	0·4	170	0·13
5	Perigee	29·803	40·5	29·0	32·3	28·3	40·0	18·8	41·5	40·3	4·0	5·0	0·7	— 3·8	NE	NE	5·5	0·0	0·6	240	0·20
6	..	30·048	35·7	29·4	32·7	30·4	40·0	24·2	41·0	40·3	2·3	3·0	1·5	— 3·3	NE	NE	2·5	0·0	0·2	65	0·01
7	..	30·230	34·6	28·1	31·5	29·8	34·3	20·0	40·7	38·3	1·7	3·0	1·0	— 4·3	NNE	NE	0·0	0·0	0·0	5	0·00
8	..	30·189	38·0	30·0	33·7	32·1	38·0	26·5	40·8	38·3	1·6	3·7	0·2	— 1·8	Calm	S	0·0	0·0	0·0	10	0·07
9	Greatest Declination N	29·924	45·4	37·2	42·4	42·4	41·5	31·3	40·7	39·8	0·0	1·5	0·0	+ 7·0	S	SW	3·5	0·0	0·1	215	0·10
10	Full	29·342	49·2	40·4	45·3	42·2	49·3	39·0	40·8	40·8	3·1	6·3	1·5	+ 9·6	SW	NW; SW	3·5	0·0	0·2	165	0·69
11	..	28·971	46·5	40·1	41·7	38·4	47·0	35·1	41·5	41·5	3·3	3·5	2·2	+ 6·1	SW; NW	N; NNE	3·0	0·0	0·3	100	0·30
12	..	29·026	44·0	31·7	36·4	34·1	53·0	22·5	41·3	41·1	2·3	5·3	0·6	+ 0·8	W	SE; E	0·0	0·0	0·0	30	0·00
13	..	29·397	36·2	30·0	33·5	32·7	38·0	23·3	41·0	40·5	0·8	1·9	0·0	— 2·1	NE	NW; N	0·0	0·0	0·0	50	0·00
14	..	29·538	38·0	28·3	32·3	26·2	42·0	22·5	40·2	39·3	6·1	7·8	4·1	— 3·3	N	N; WSW	0·0	0·0	0·0	60	0·00
15	In Equator	29·899	41·8	26·0	33·7	35·6	49·2	16·1	40·7	38·1	0·1	2·2	0·0	+ 0·2	SSW	SW; N	1·5	0·0	0·1	75	0·08
16	..	29·994	45·0	32·0	37·8	34·1	48·0	21·0	40·5	37·3	3·7	8·8	0·3	+ 2·3	W	NW	2·3	0·0	0·2	85	0·00
17	..	30·196	45·0	33·0	38·4	36·6	49·5	17·0	40·3	37·5	1·8	3·2	1·4	+ 2·5	SW	WSW	0·0	0·0	0·0	85	0·01
18	Last Quarter	30·162	49·8	36·0	44·5	44·3	50·5	29·0	39·8	38·0	0·2	3·6	0·0	+ 8·2	WSW	W	3·0	0·0	0·2	135	0·00
19	..	30·138	48·3	36·7	42·4	40·4	47·0	39·0	39·7	38·6	2·0	5·3	0·3	+ 5·9	WSW; N	N; SW	0·0	0·0	0·0	105	0·02
20	..	29·334	43·2	32·8	38·1	36·3	48·0	23·7	39·7	38·8	1·8	4·8	0·3	— 1·3	SW	SW; W	7·0	0·0	0·5	95	0·24
21	..	29·440	38·0	29·5	32·2	30·2	37·8	24·3	39·7	39·7	2·0	2·6	0·0	— 4·9	W	W	0·0	0·0	0·0	15	0·00
22	..	29·619	39·8	28·4	35·1	33·9	40·0	18·3	39·5	39·5	1·2	3·8	1·0	— 2·2	N	SW	2·0	0·0	0·1	145	0·02
23	Greatest Declination S	29·143	44·2	32·0	37·7	32·8	51·5	24·0	39·8	39·8	4·9	7·5	3·8	+ 0·2	W	W	3·3	0·0	0·4	165	0·03
24	..	28·993	41·0	32·0	36·4	34·6	41·0	26·8	39·5	39·5	1·8	4·1	0·3	— 1·5	W	NW	3·0	0·0	0·1	115	0·10
25	New	29·251	39·0	34·0	35·0	34·5	40·0	31·0	..	..	1·4	1·4	0·3	— 2·1	ENE	NE	1·5	0·0	0·0	80	0·16
26	..	29·563	36·7	30·1	33·1	32·2	38·0	35·0	..	..	0·9	1·6	0·3	— 5·2	NNE	ENE	1·0	0·0	0·1	135	0·02
27	..	29·758	36·5	28·0	31·8	29·3	39·3	31·0	..	..	2·5	4·6	0·0	— 6·5	NNE	NE	0·0	0·0	0·0	25	0·01
28	..	29·685	34·5	25·0	29·7	25·3	41·0	10·0	..	..	4·4	9·2	0·3	— 8·4	NNE	NNE	0·0	0·0	0·0	25	0·00
29	In Equator	29·720	32·8	22·0	26·2	21·1	41·0	11·4	..	..	5·1	7·3	3·5	—11·7	N by E	N; WSW	0·0	0·0	0·0	15	0·00
30	Perigee	29·662	35·1	20·0	28·5	23·7	36·0	8·0	..	..	4·8	8·4	0·0	— 9·1	SW	SW	2·0	0·0	0·0	95	0·00
31	..	29·582	37·6	30·5	32·9	30·6	37·6	21·0	..	..	2·3	3·9	0·3	— 4·4	SW	NW	1·5	0·0	0·2	10	0·25
Means	..	29·634	41·8	32·1	36·6	33·9	44·6	25·0	40·3	39·4	2·7	4·9	0·9	0·0	...	...	..	..	..	Sum 3235	Sum 2·59

BAROMETER READINGS.

The first minimum in the month was 28in·968 on the 3rd.
The absolute maximum in the month was 30in·258 on the 7th; the absolute minimum ,, was 28in·848 on the 11th.
The second maximum ,, was 30in·050 on the 14th; the third minimum .. was 29in·847 on the 15th.
The third maximum ,, was 30in·212 on the 17th; the fourth minimum ,, was 29in·179 on the 20th.
The fourth maximum ,, was 29in·709 on the 22nd; the fifth minimum .. was 28in·970 on the 24th.
The fifth maximum ,, was 29in·764 on the 27th; the sixth minimum .. was 29in·525 on the 31st.
The range in the month was 1in·410. The mean for the month was 29in·634, being 0in·095 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 52°·7 on the 2nd; the lowest was 20°·0 on the 29th; and the range in the month was 32°·7.
The mean ,, of all the highest daily readings was 41°·8, being 1°·2 *lower* than the average of the preceding 17 years.
The mean .. of all the lowest daily readings was 32°·1, being 1°·6 *lower* than the average of the preceding 17 years.
The mean daily range was 9°·7, being 0°·3 *higher* than the average of the preceding 17 years.
The mean for the month was 36°·6, being 1°·5 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
Jan. 1	v	v	10	: 5, li.-cl	6, li.-cl	: 10
2	s	s	v, r	: 0	0	
3	w	w	v, r, st.-w, sqs		10	: st.-w, h.-r
4			10	: sl.-r	10, r	
5			10, r, st.-w	: sl.-sn	5, sn	: 10, ci.-s, sc
6			10, sn, sl.-r		10, r	
7			10		10	
8			10, sn		10, r, sl	
9			10, r		10	: r
10			10, h.-r		5	: 10, h.-r
11			10, r		10	
12		w : 0	0		5, li.-cl	: 10, f
13	0	s	10, f		10	: f
14	s	s	0		0	: h
15	s	s	10, th.-r		10, r	: v, f
16	s, g cur	s	10, ci.-cu, li.-cl		8 ci.-cu, li.-cl	
17	s	s, sps, g cur	10		5, li.-cl	: 10, f
18	s, sps	s, sps	10		10, m.-r	: v
19	s, sps	s, sps	10, th-r		v, th.-r	: 0, f
20	m	m	10, shs.-r, st.-w		10, h.-r, st.-w	
21	s, sps, g cur	s, sps, g cur	10, f	: 0	0, f	
22	s	s	10, h		8, li.-cl	: 10, li.-r
23	s, sps, g cur	s, sps, g cur	v, r		v, li.-cl	: f
24	s	N, s : 0	10, sn		5, r	: 10, h.-sqs, w, r
25	N, m	s	10, sn.-r		10, r	
26	v	v	10, sn		10, sn	: 10, sl, r
27	s, sps, g cur	s, sps, g cur	10, sn		10	: 0
28	s	s	0	: 10	10	: 10, sn
29	s, sps, g cur	s, sps, g cur	0		5, cu, ci.-cu	: 0, h
30	s	s	5, li.-cl		5, ci.-cu	: 10
31	ss, sps, g cur	ss, sps, g cur	10, sn		10	: 0, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 47°·0 on the 3rd; and the lowest was 15°·7 on the 29th.

The mean .. was 33°·9, being 1°·6 *lower* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·195, being 0in·010 *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2gr·3, being 0gr·1 *less* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 91 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 553 grains, being *the same as* the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 7·5.

WIND.

The proportions were of N. 9, S. 3, W. 12, and E. 7. The greatest pressure in the month was 12lbs·0 on the square foot on the 3rd.

RAIN.

Fell on 20 days in the month, amounting to 2in·6 as measured in the simple cylinder gauge partly sunk below the ground; being 0in·6 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—Jan. 4 to 11. The insulating lamp on the electrometer pole was not burning.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean of Highest Values.	Dry. Mean of Lowest Values.	Dew Point. Highest.	Dew Point. Lowest.	Dew Point. Mean Dew Point Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wire Gauge. Amount of Horizontal Movement of the Air in each Day.	Rain in Inches read at 9h P.M.
		in.												lbs.	lbs.	lbs.	miles	in
Feb. 1	First Qr.	29·784	31·6	20·0	24·5	23·8	31·6	10·7	..	0·7	1·9	0·5	−12·7	SW	Calm	0·0	0·0	0·0	5	0·00
2	..	29·444	37·5	21·2	30·3	26·8	38·5	14·0	..	3·5	6·2	0·6	− 6·7	SE	S ; SE	0·0	0·0	0·0	45	0·00
3	..	29·062	32·1	26·0	28·2	24·5	38·2	20·5	..	3·7	5·9	3·6	− 9·1	ESE ; NE	NE	0·0	0·0	0·0	35	0·08
4	..	30·[illegible]5	37·2	23·5	29·0	24·6	48·4	21·2	..	4·4	6·2	3·2	− 8·7	NE	NE ; Calm	0·0	0·0	0·0	5	0·00
5	[illegible]	29·[illegible]2	38·0	23·0	[illegible]	26·9	43·0	12·8	..	[illegible]	7·8	[illegible]	− 7·6	SW	SW	0·0	0·0	0·0	100	0·00
6	..	29·777	47·7	37·5	42·2	33·7	52·2	28·1	..	2·5	4·8	1·5	+ 3·2	WSW	SW	0·0	0·0	0·0	105	0·00
7	..	29·[illegible]4	45·5	39·4	41·2	36·6	44·7	36·0	..	4·[illegible]	5·1	3·0	+ 2·[illegible]	SW	SW	2·[illegible]	0·0	0·3	135	0·00
8	Full	29·[illegible]2	44·7	36·2	40·4	36·3	47·5	29·2	..	4·1	6·8	2·5	+ 1·2	SSW	SSW	0·0	0·0	0·0	125	0·00
9	..	29·[illegible]6	48·0	37·0	42·8	34·4	60·0	29·3	..	8·4	11·6	6·2	+ 3·8	SSE ; S	S	4·0	0·0	0·6	220	0·00
10	..	29·575	50·0	40·[illegible]	43·9	39·8	56·0	31·1	..	4·1	8·2	1·6	+ 5·2	SW	SW	4·5	0·0	0·5	155	0·08
11	..	29·783	52·2	37·2	44·4	37·5	57·0	28·7	..	6·9	12·2	4·0	+ 5·9	SW	WSW	3·0	0·0	0·4	115	0·01
12	In Equator	30·214	47·0	32·5	38·7	31·3	55·0	21·1	..	7·4	11·7	3·6	+ 0·4	NW ; WSW	SW	1·5	0·0	0·0	60	0·00
13	..	30·170	44·2	31·[illegible]	37·[illegible]	33·4	50·5	20·4	.	..	4·5	[illegible]	3·6	− 0·3	SW	W ; SW	0·0	0·0	0·0	25	0·00
14	Apogee	30·130	47·2	31·4	38·4	33·5	53·4	20·8	..	..	4·[illegible]	11·1	0·7	+ 0·4	SW	Calm	0·0	0·0	0·0	15	0·00
15	..	29·988	45·2	29·9	36·9	34·9	50·1	18·0	..	..	2·0	[illegible]	0·0	− 1·2	NE	ESE	0·0	0·0	0·0	20	0·00
16	..	29·[illegible]6	55·4	28·2	41·[illegible]	38·0	72·0	21·8	..	..	3·9	13·2	0·7	+ 3·8	Calm	S	0·0	0·0	0·0	15	0·00
17	Last Qr.	29·872	56·0	34·0	44·5	41·3	62·5	25·0	..	..	3·2	9·0	0·2	+ 6·3	S	S	0·0	0·0	0·0	30	0·00
18	..	29·878	55·3	39·0	45·[illegible]	42·1	69·8	31·8	..	..	3·8	11·4	0·3	+ 7·6	S	SW ; Calm	0·0	0·0	0·0	25	0·00
19	[illegible]	30·001	45·8	38·2	42·3	38·0	49·3	29·0	..	..	2·4	4·6	1·1	+ 3·9	Calm	Calm	0·0	0·0	0·0	0	0·00
20	..	30·050	52·0	37·[illegible]	43·1	39·5	62·0	37·1	..	..	3·6	9·2	0·4	+ 4·6	Calm	SW	0·0	0·0	0·0	30	0·00
21	..	30·169	51·2	34·[illegible]	42·5	39·1	57·0	27·7	..	..	3·4	9·2	1·2	+ 4·0	SW	SW	0·0	0·0	0·0	160	0·00
22	..	30·120	54·2	39·[illegible]	45·3	38·9	67·3	32·7	..	..	6·4	13·2	0·0	+ 6·7	SW	SW	2·0	0·0	0·2	65	0·00
23	..	30·134	55·2	36·1	44·4	39·[illegible]	64·0	24·0	..	..	5·3	13·2	1·2	− 5·5	Calm	Calm	0·0	0·0	0·0	10	0·00
24	New	30·091	51·4	32·8	40·[illegible]	37·6	66·3	20·2	..	..	3·3	8·8	1·8	+ 1·8	S	SE	0·0	0·0	0·0	10	0·00
25	..	30·056	41·8	24·9	33·6	33·4	43·0	16·2	..	..	0·2	3·2	0·0	− 5·9	Calm	NW ; NE	0·0	0·0	0·0	15	0·00
26	First Quarter	30·363	52·2	31·[illegible]	38·[illegible]	32·2	68·0	18·0	..	..	6·3	14·7	2·2	− 1·0	NE	Calm	0·0	0·0	0·0	40	0·00
27	..	30·328	47·0	31·8	40·2	35·8	50·0	20·8	..	..	4·4	10·6	3·7	+ 0·4	Calm ; SW	SW	0·0	0·0	0·0	60	0·00
28	..	30·38[illegible]	56·[illegible]	36·9	45·6	40·[illegible]	76·2	27·9	..	..	4·7	11·8	1·5	+ 5·6	SW	Calm	0·0	0·0	0·0	5	0·00
Means	..	29·950	47·2	32·5	39·2	35·1	55·2	24·1	..	..	4·1	[illegible]	1·7	+ 0·7	...	...	..	..	..	Sum 163c	Sum 0·17

BAROMETER READINGS.

The first maximum in the month was 29·820 on the 1st; the first minimum in the month was 29·407 on the 2nd.
The second maximum .. was 30·138 on the 4th; the absolute minimum .. was 29·382 on the 9th.
The absolute maximum .. was 30·246 on the 12th; the third minimum .. was 29·859 on the 17th.
The range in the month was 0in·864.
The mean for the month was 29in·950, being 0in·183 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 56·[illegible]9 on the 28th; the lowest was 20·0 on the 1st; and the range in the month was 36°·9.
The mean ,, of all the highest daily readings was 47°·2, being 2°·8 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 32°·5, being 1°·0 *lower* than the average of the preceding 17 years.
The mean daily range was 14°·7, being 3°·9 *higher* than the average of the preceding 17 years.
The mean for the month was 39°·2, being 0°·7 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Feb. 1	s, sps	s, sps	10, th.-f	9, li.-cl : 10
2	ss, sps, g cur	ss, sps, g cur	10, sn	10 : 7
3	s	s	10	10
4	s	v	10, sn	0 : f
5	v	v	10	10, sl.-sn
6	s	s	10	10
7	s	w	10	10
8	w	w	10	10
9	w	w	7 li-cl	7, li.-cl : 10, r, st.-w
10	w	w	5, ci, r	10 : 0
11	m	m	0 : 10, cu, ci-cu	9, cu, ci.-cu : r
12	s, sps, g cur	s, sps, g cur	10 s, h.-fr : 0	0 : f
13	s, sps	s, sps	0 : 10	10
14	s, g cur	s, g cur	7	0
15	v	v	9	9, ci.-cu, ci.-s
16	ss, sps	ss, sps	2, ci.-cu, ci	0 : h
17	s	s	0 : 10	10
18	ss, sps	ss, sps	10	v : h
19	v	v : s, sps	10, f	10 : f
20	s, sps	s, sps	10	10 : 0
21	ss	ss	10	10
22	m	m	2 li.-cl : 0	0 : h
23	s, sps, g cur	s, sps, g cur	10, f : 0	0
24	s	s	10	0
25	s, sps, g cur	s, sps, g cur	10, h.-f	10, th.-f
26	s, sps, g cur	s, sps, g cur	5, th.-r	0, h
27	s	s	10	10 : 7, f
28	s	N, w : s	7	0 : 10 : 0, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 45°·7 on the 17th; and the lowest was 19°·8 on the 5th.
The mean ,, was 35°·1, being 0°·5 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0″·204, being 0″·001 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2″·4, being 0″·1 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being the same as the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 556 grains, being 3 grains *greater* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·8.

WIND.

The proportions were of N. 3, S. 14, W. 8, and E. 3. The greatest pressure in the month was 4″·5 on the square foot on the 10th.

RAIN.

Fell on 3 days in the month, amounting to 0″·2, as measured in the simple cylinder gauge partly sunk below the ground; being 1″·2 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Shade.	Lowest on Grass.	In the Water of the Open Channel of the South Side of the Reservoir in Trentham Park at 9 A.M. Highest.	In the Water of the Open Channel of the South Side of the Reservoir in Trentham Park at 9 A.M. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature by Rain-gauge and the Mean Temperature of the Day and the Mean Average of 17 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Amount of Horizontal Movement of the Air in Miles per Day.	Rain in Inches fell at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.		in.
Mar. 1	..	30·424	55·0	32·2	43·6	41·7	69·5	22·[illegible]	..	..	1·3	7·8	0·9	+ 1·0	E	E	0·0	0·0	0·0	10	0·00
2	..	30·371	49·8	41·3	[illegible]	[illegible]	[illegible]	[illegible]	..	..	4·0	8·2	0·0	+ [illegible]	ENE	E	0·0	0·0	0·0	10	0·00
3	First Qr.	30·258	47·6	41·[illegible]	43·2	38·[illegible]	51·7	39·2	..	..	4·3	6·7	2·6	+ 3·3	Calm	Calm	0·0	0·0	0·0	30	0·00
4	Greatest Declination N.	30·005	50·0	35·8	43·1	[illegible]	56·0	[illegible]	..	..	4·1	7·7	0·8	+ 3·2	W	W ; N	4·0	0·0	0·4	90	0·00
5	..	30·163	48·[illegible]	29·5	38·0	29·8	65·8	15·[illegible]	..	..	8·2	17·6	5·2	— 2·[illegible]	N ; SW	WSW	2·5	0·0	0·2	150	0·00
6	..	29·895	53·8	[illegible]	46·1	37·6	66·9	29·0	..	..	8·5	15·6	3·6	+ 6·0	W ; NW	W	2·5	0·0	0·1	60	0·00
7	..	29·761	[illegible]	[illegible]	44·3	38·1	65·5	26·0	..	..	6·2	12·2	2·9	+ 4·2	W	W	0·0	0·0	0·0	140	0·00
8	..	29·384	[illegible]	32·3	35·8	32·8	48·0	26·4	..	..	[illegible]	5·5	1·[illegible]	— 4·3	WSW	NW ; W	12·0	0·0	1·5	140	0·13
9	..	29·[illegible]	44·[illegible]	[illegible]	[illegible]	29·[illegible]	58·5	20·0	..	..	5·9	12·[illegible]	1·8	— 4·8	W ; N	NNE	7·0	0·0	0·8	150	0·00
10	Full	29·869	42·0	28·0	[illegible]	[illegible]	59·0	[illegible]	..	..	4·6	[illegible]	2·8	— 5·8	NNE	N ; Calm	0·0	0·0	0·0	15	0·00
11	In Equator	29·800	40·0	[illegible]	[illegible]	[illegible]	47·0	[illegible]	..	..	[illegible]	[illegible]	2·9	— 7·2	SE	SW	0·0	0·0	0·0	10	0·00
12	..	29·896	44·0	28·8	36·8	32·4	[illegible]	[illegible]	..	..	[illegible]	[illegible]	[illegible]	— 3·8	W	SW	0·0	0·0	0·0	75	0·00
13	..	29·546	[illegible]	33·8	[illegible]	[illegible]	[illegible]	[illegible]	..	..	7·4	[illegible]	1·4	— 2·6	SSW	S	5·0	0·0	0·8	225	0·03
14	Apogee	29·020	56·6	[illegible]	46·2	[illegible]	67·0	[illegible]	..	..	5·3	18·0	1·3	— [illegible]	S	SW	13·0	0·0	4·0	350	0·15
15	..	29·390	52·5	36·0	[illegible]	[illegible]	[illegible]	[illegible]	..	..	[illegible]	[illegible]	5·5	+ 0·2	SW	SW	12·0	1·0	2·0	310	0·27
16	..	[illegible]	[illegible]	[illegible]	44·0	[illegible]	76·0	28·0	..	..	5·2	[illegible]	[illegible]	— [illegible]	SW	SW	3·0	0·0	0·5	60	0·00
17	..	29·676	[illegible]	[illegible]	[illegible]	[illegible]	70·3	[illegible]	..	..	[illegible]	[illegible]	[illegible]	+ [illegible]	SE ; E	SE	0·0	0·0	0·0	25	0·00
18	Last Qr.	[illegible]	66·2	44·5	[illegible]	[illegible]	84·4	28·5	..	..	5·8	[illegible]	3·8	+ [illegible]	Calm	SE	0·0	0·0	0·0	20	0·00
19	[illegible]	29·760	56·0	47·8	50·7	48·6	[illegible]	42·2	..	..	2·1	3·2	1·5	+ [illegible]	S	SE	0·0	0·0	0·0	5	0·06
20	..	[illegible]	[illegible]	41·3	44·9	[illegible]	[illegible]	42·2	..	..	[illegible]	5·0	2·1	— [illegible]	SE	E	[illegible]	0·0	0·3	150	0·00
21	..	29·880	42·8	33·0	35·7	29·2	[illegible]	27·9	..	..	6·5	[illegible]	1·3	— 6·2	E	NE	5·0	0·0	2·0	120	0·00
22	..	29·665	42·4	27·7	32·9	29·6	[illegible]	17·1	..	..	[illegible]	8·8	..	— [illegible]	N ; NW	NNW	[illegible]	0·0	0·0	55	0·05
23	..	[illegible]	[illegible]	[illegible]	35·6	29·3	[illegible]	25·5	..	..	6·3	[illegible]	4·2	— 6·4	SW	S ; SSE	0·0	0·0	0·0	35	0·00
24	..	[illegible]	50·0	30·0	[illegible]	32·6	67·5	20·2	..	..	7·6	[illegible]	[illegible]	— [illegible]	SE	SE	2·0	0·0	0·1	85	0·00
25	In Equator	[illegible]	[illegible]	36·0	40·2	[illegible]	[illegible]	[illegible]	..	..	[illegible]	8·4	2·2	— [illegible]	SE	SW	0·0	0·0	0·0	70	0·02
26	New Moon	29·626	52·3	[illegible]	41·1	[illegible]	67·5	17·1	..	..	5·9	[illegible]	[illegible]	— 1·2	SW	N	0·0	0·0	0·0	5	0·00
27	..	29·880	47·2	[illegible]	[illegible]	36·9	51·0	25·3	..	..	4·6	9·0	1·7	— 0·9	Calm	Calm	0·0	0·0	0·0	0	0·00
28	..	[illegible]	[illegible]	40·7	46·0	[illegible]	72·0	27·4	..	..	[illegible]	12·8	4·4	+ [illegible]	NE	SE	0·0	0·0	0·0	30	0·00
29	..	29·618	[illegible]	40·8	47·1	38·8	60·0	36·2	..	..	8·3	14·8	[illegible]	+ [illegible]	SE ; E	S ; SE	0·0	0·0	0·0	65	0·05
30	..	29·058	53·8	45·0	48·3	42·5	68·8	[illegible]	..	..	[illegible]	10·2	2·6	+ [illegible]	SE	SW	4·0	0·0	0·3	170	0·15
31	[illegible]	29·127	[illegible]	44·5	47·4	42·1	64·0	38·3	..	..	[illegible]	11·0	[illegible]	+ [illegible]	W	WSW	0·0	0·0	0·0	65	0·04
Means	..	29·720	[illegible]	35·9	41·8	[illegible]	[illegible]	27·5	..	..	5·4	11·6	2·6	+ 0·5	...	...	..	..	..	[illegible]	[illegible]

BAROMETER READINGS.

The absolute maximum in the month was 30·435 on the 1st; the first minimum in the month was 29·309 on the 8th.
The second maximum ,, was 29·915 on the 12th; the absolute minimum ,, was 28in·968 on the 14th.
The third maximum ,, was 29in·892 on the 16th; the third minimum ,, was 29in·619 on the 18th.
The fourth maximum ,, was 29in·896 on the 21st; the fourth minimum ,, was 29in·323 on the 25th.
The fifth maximum ,, was 29in·899 on the 27th; the fifth minimum ,, was 29in·025 on the 30th.
The range in the month was [illegible].
The mean for the month was [illegible], being [illegible] than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 69°·2 on the 18th; the lowest was 27°·7 on the 22nd; and the range in the month was 38°·5.
The mean ,, of all the highest daily readings was 50°·2, being 0°·5 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 35°·9, being 0°·9 *higher* than the average of the preceding 17 years.
The mean daily range was 14°·3, being 0°·3 *lower* than the average of the preceding 17 years.
The mean for the month was 41°·8, being 0°·2 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	s, g cur	s, g cur	0, f : 10	1
2	s	s	10, f	1
3	s	s	10	10 : f
4	v	v	10	10
5	w	w	10, s, li.-cl : 0	: 10, ci.-cu, ci.-s, sc
6	v	v	7 : 10	10
7	ss, sps, g cur	ss, sps, g cur	v	v : 1 . hu.-ha
8	w		0 : 1 . sn, hl, r	10, sn, hl, r : 0
9	ss, sps, g cur	ss, sps, g cur	7, ci.-cu, ci-s, sn	7, ci.-cu, ci.-s, hl, sn : 10, sn
10		w : s	10, cu, ci.-cu, li.-cl, sn	10, ci.-cu, ci.-s, sn : 10
11	m	m	10	1 : 10, ci.-cu, ci
12	m	m	10	10, ci.-cu, ci, r : -
13	m	w	7, ci.-s, ci	1 . r : 0
14			10, r : 0	10, ci.-cu, ci.-s, shs.-r
15			0 : 10, shs, hl, r : 0	10, sqs, hl : 0
16		v : s	0	5, cu, sl.-r : -
17	w	v	0	1 : 0
18	0	w	0	10
19	w	0	10, r	10, r
20	0	0	10, r	10 : 0
21	0	0 : w	5, ci.-cu	5, cu, ci.-cu, li.-cl
22	0	0	10, cu.-s, ci.-s, s, sn	10, ci.-s, s, sn, hl
23	0	w : 0	5, cu, ci.-cu, oc.-sn	5, cu, ci.-cu, cu.-s : 0
24	0 : w	w : 0	5, cu	5, cu, ci.-cu, ci.-s : 10
25	0	0	10, sl.-r	10, sl.-r
26	s : 0	0 : w	0 : 5	5, ci.-cu, li.-cl : 0, h
27	w : 0	w : 0	10, f	1
28	w	w : s	10 : 5, ci.-cu, ci.-s	10, ci.-cu, ci.-s
29	w : 0	0 : w	10, oc.-r	10 : oc.-r
30	0 : w	N. w : 0	5, cu, ci.-cu : 10, shs.-r	10, shs.-r
31	w	w : s	10, r	10, ci.-cu, ci.-s : fr.-h.-shs

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 50°·6 on the 18th; and the lowest was 27°·5 on the 21st.

The mean [illegible] was 36°·4, being 0°·1 [illegible] than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·215, being 0^{in}·001 *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·5, being the same as the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 82 (Point of Saturation being represented by 100), being the same as the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 3.19 grains, being 2 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·8.

WIND.

The proportions were of N. 3, S. 11, W. 10, and E. 7. The greatest pressure in the month was 13 [illegible] on the square foot on the 14th.

RAIN.

Fell on 10 days in the month, amounting to 1^{in}·0, as measured in the simple cylinder gauge partly sunk below the ground; being 0^{in}·4 *less* than the average fall of the preceding 17 years.

ELECTRICITY.—Jan 14 and 15. The insulating lamp was not burning.

MONTH and DAY. 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers: Dry. Highest	Dry. Lowest	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Shade during the Day.	Lowest on the Grass during the Night.	In the Water of the Sea at Sunset. Mean Temperature of the Day.	In the Water of the Sea at Sunset. Highest.	In the Water of the Sea at Sunset. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on 17 preceding Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Amount of Horizontal Movement of the Air on each Day	Rain in Inches read at 9h P.M.
																lbs.	lbs.	lbs.	miles.	in.
April 1	First Qr.	29·[illegible]	56·8	40·1	47·[illegible]	[illegible]	76·5	30·6	..	..		7·4	14·6	3·5	− 3·4	SW	W ; SE	0·0	0·0	0·0	120	0·01
2	..	29·[illegible]39	58·1	44·7	48·7	42·[illegible]	71·3	4[illegible]·2	..	..		6·3	13·4	3·1	+ 4·[illegible]	SE ; SSW	SSE	5·0	0·0	1·3	150	0·02
3	..	29·[illegible]47	58·4	42·6	48·8	43·1	[illegible]·5	34·1	..	..		5·7	11·6	3·6	+ 4·3	SSE	SW	0·0	0·0	0·0	75	0·03
4	..	29·[illegible]63	53·8	40·8	47·6	46·2	58·0	32·1	..	..		1·4	5·4	3·0	+ 2·8	SW ; SE	SE	0·0	0·0	0·0	85	0·15
5	..	29·[illegible]46	65·0	49·5	[illegible]	48·7	72·5	47·0	..	..		6·6	14·2	1·7	+ 1·[illegible]2	SE	SE	0·0	0·0	0·0	30	0·15
6	..	29·[illegible]32	63·2	47·2	53·8	49·6	75·8	4[illegible]·8	..	..		4·2	10·6	1·3	+ 8·[illegible]	Calm ; SW	SW	0·0	0·0	0·0	70	0·04
7	In Equator	29·[illegible]	62·0	44·3	[illegible]	47·3	[illegible]	3[illegible]·4	..	..		3·4	8·[illegible]	1·[illegible]	+ 5·2	SW	SW	2·0	0·0	0·1	100	0·09
8	..	29·[illegible]3[illegible]	60·5	46·0	51·0	47·[illegible]	[illegible]	3[illegible]·8	..	..		3·[illegible]	1·[illegible]3	1·[illegible]	+ [illegible]·[illegible]	SW	SW	2·0	0·0	0·1	105	0·00
9	Full	29·[illegible]31	61·7	43·2	49·7	45·[illegible]	[illegible]·2	33·[illegible]	..	..		4·[illegible]	12·4	2·[illegible]	+ 4·[illegible]	SE	SE ; Calm	0·0	0·0	0·0	25	0·13
10	..	29·[illegible]29	61·[illegible]	3[illegible]·[illegible]	48·1	42·7	[illegible]·[illegible]	2[illegible]·5	..	..		5·4	12·2	2·1	+ 3·[illegible]	Calm	Calm	0·0	0·0	0·0	40	0·02
11	Apogee	29·[illegible]3[illegible]	46·4	38·2	40·7	3[illegible]·[illegible]	[illegible]·7	4[illegible]·[illegible]	..	..		3·8	6·9	0·2	− 4·4	Calm ; NW	NW ; SW	3·0	0·0	0·2	135	0·10
12	..	29·[illegible]23	53·[illegible]	35·8	40·8	3[illegible]·7	71·[illegible]	2[illegible]·[illegible]	..	..		6·1	9·2	4·8	− 4·1	W ; SW	W ; SW	4·0	0·0	0·4	225	0·02
13	..	28·[illegible]03	46·0	33·[illegible]	36·8	33·4	[illegible]·[illegible]	2[illegible]·[illegible]	..	..		3·4	7·0	0·0	− 8·[illegible]	NW	NW	5·0	0·0	1·0	185	0·1[illegible]
14	..	29·[illegible]24	51·2	33·[illegible]	40·9	33·8	[illegible]·[illegible]	2[illegible]·[illegible]	..	..		7·1	15·2	5·1	− 4·[illegible]	NW	NW ; Calm	2·0	0·0	0·2	60	0·[illegible]3
15	[illegible]	29·[illegible]7[illegible]	53·8	31·4	[illegible]·2	3[illegible]·0	75·8	21·[illegible]	..	..		5·4	12·8	3·2	− 3·3	SW	Calm	2·0	0·0	0·1	65	0·04
16	..	29·[illegible]00	50·5	33·0	40·8	38·0	79·8	23·2	..	..		1·9	[illegible]·7	0·7	− 5·2	Calm	S	0·0	0·0	0·0	70	0·0[illegible]
17	Last Qr.	29·[illegible]14	60·0	3[illegible]·0	46·3	44·5	[illegible]·0	24·9	..	..		2·0	10·[illegible]	1·8	+ [illegible]·3	SE	SW	2·[illegible]	0·0	0·1	135	0·[illegible]1
18	..	29·[illegible]2[illegible]	68·5	48·1	57·4	46·3	86·7	[illegible]·8	..	..		11·1	18·5	8·2	+ 11·0	SW	SE	0·0	0·0	0·0	135	0·00
19	..	29·[illegible]3[illegible]	69·0	48·0	[illegible]·2	47·[illegible]	92·7	[illegible]·[illegible]	..	..		8·6	18·7	5·2	+ [illegible]·9	SE ; SW	SW	1·[illegible]	0·0	0·1	115	0·00
20	..	30·[illegible]12	66·8	41·3	53·1	44·4	91·2	28·3	..	..		8·[illegible]	16·[illegible]	1·5	+ 6·4	SW ; Calm	W ; N	0·0	0·0	0·0	85	0·00
21	..	30·[illegible]16	62·0	40·9	50·3	40·6	79·5	28·6	..	..		9·[illegible]	10·8	2·2	+ 3·3	SW ; NW	N ; NW	2·0	0·0	0·2	120	0·00
22	In Equator	29·856	50·9	44·9	47·0	44·8	[illegible]·1	35·2	..	..		2·2	3·6	1·[illegible]	− [illegible]·3	W	W ; N	0·0	0·0	0·0	50	0·28
23	..	29·[illegible]31	48·7	36·5	40·1	34·6	53·2	32·8	..	..		5·5	12·4	2·3	− [illegible]·[illegible]	N	NE	0·0	0·0	0·0	60	0·04
24	New Moon	29·804	50·6	28·2	38·6	35·2	67·2	1[illegible]·[illegible]	..	..		3·4	9·7	2·0	− 9·0	N ; NE	SE	0·0	0·0	0·0	50	0·00
25	..	29·[illegible]5[illegible]	49·0	[illegible]·1	40·5	33·1	64·0	[illegible]·1	..	..		[illegible]·2	10·4	[illegible]·[illegible]	− [illegible]·1	SE	ENE	0·0	0·0	0·0	110	0·00
26	..	29·794	44·1	34·2	[illegible]·0	30·6	51·0	2[illegible]·[illegible]	..	..		6·4	14·3	5·1	− 1·[illegible]	NE	NE	3·5	0·0	[illegible]·3	165	0·00
27	..	29·901	47·8	36·2	[illegible]·[illegible]	32·0	56·7	[illegible]·2	..	..		[illegible]·[illegible]	15·8	[illegible]·[illegible]	− [illegible]·2	NNE	NNE	1·0	0·0	0·1	100	0·00
28	[illegible]	29·913	[illegible]·2	[illegible]·0	[illegible]·4	32·8	[illegible]·[illegible]	31·5	..	..		[illegible]·[illegible]	15·5	6·6	− [illegible]·1	NNE	NE ; Calm	0·0	0·0	0·0	15	0·00
29	..	29·[illegible]10	55·0	[illegible]·1	41·0	[illegible]·[illegible]	72·0	18·2	..	..		6·7	20·8	4·4	− 8·1	Calm ; NE	N by E	0·0	0·0	0·0	50	0·00
30	..	29·[illegible]3[illegible]	52·8	33·0	[illegible]·1	[illegible]·1	[illegible]·5	1[illegible]·[illegible]	..	..		[illegible]·3	14·0	0·2	− 7·9	NNE	NE	0·0	0·0	0·0	15	0·00
Means	..	29·632	55·8	[illegible]·8	[illegible]·[illegible]	[illegible]·0	[illegible]·1	31·[illegible]	..	..		[illegible]·7	12·[illegible]	2·[illegible]	− [illegible]·3	...	...	..	..	..	274·[illegible]	1·44

BAROMETER READINGS.

The first maximum in the month was 29·[illegible]51 on the 1st; the first minimum in the month was 29·[illegible]37 on the 2nd.
The second maximum was 29·[illegible]62 on the 4th; the second minimum .. was 29·[illegible]437 on the 5th.
The third maximum .. was 29·[illegible]820 on the 7th; the third minimum .. was 29·[illegible]274 on the 10th.
The fourth maximum .. was 29·[illegible]48 on the 12th; the fourth minimum .. was 28·[illegible]821 on the 13th.
The fifth maximum .. was 29·[illegible] on the 21st; the fifth minimum .. was 29·[illegible]221 on the 25th.
The range in the month was [illegible].
The mean for the month was 29·[illegible], being [illegible] than the mean range of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was [illegible] on the 14th; the lowest was 28·2 on the 24th; and the range in the month was 40°·8.
The mean .. of all the highest daily readings was 55°·8, being 1°·2 lower than the average of the preceding 17 years.
The mean .. of all the lowest daily readings was 38°·8 being 0°·1 *lower* than the average of the preceding 17 years.
The mean daily range was 17°·0, being 1°·2 [illegible] than the average of the preceding 17 years.
The mean for the month was 45°·7, being [illegible] than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
April 1	s	w	3, ci.-cu, s	3 : 1 th.-r.
2	w	w	10, th.-r	10, cu, ci.-cu : 3, shs.-r, lu.-co
3	s	s	10, ci.-cu, s, sl.-r	10, cu, ci.-cu, ci.-s : 10, fi., sh.-
4	o	o	10, th.-r	10, shs.-r
5	o	o : w	10, ci.-cu, ci-r	10, ci.-cu, ci, shs.-r
6	o	o : m	10, ci-cu, cu-s, li-cl	10, cu, ci.-cu, ci.-s, lu.-co
7	o	s N, s P, sps, g cur : o	10	v, cu, ci.-cu, hs.-r, t
8	v	v	10, cu, ci-cu, ci	10, cu, ci.-cu, ci : 3
9	ss, sps, g cur	o	10, r	10, sl.-r
10	m	m : s N, sps, g cur	10, cu, s	7, cu, cu.-s, l, t : 1
11	o	o : w	10, r	10, r : 7
12	s	s : s N, g cur	o : 10, cu, s, sl. hl	10 : 1 cu, ci.-cu, li.-r
13	o	o : s	10, sl.-r	10, sl.-r : 1, li.-cu, m, r
14	o	o : w	10, cu, ci.-cu	10, cu, ci.-cu, ci : 1 f
15	o	ss, sps, g cur	o : 10, sh.-hl,-r	10, h, sh.-r :
16	s N, sps, g cur	s N, s P, sps, g cur	10, ci-cu, ci, li.-cl : h.-shs.-r	10, sh., hl, r : o
17	o	w	10, ci.-cu, ci, s	o
18	o	w	o	3 : o
19	v	v	o, h	2, ci-cu
20	v	v	7, h	7, cu, ci.-cu, ci.-s
21	s	w	7, ci.-cu, ci	7 : o
22	o	w N	10, m.-r	10, m.-r : h.-r : 1
23	o	o : w	10, m.-r	10, ci-cu, ci.-s :
24	P, N, v	P, N, v	o : 1 cu, ci.-cu, hl	10, cu, ci.-cu, sh.-hl.
25	v	v	10, ci.-cu, ci.-s	10, ci.-cu, s, ci.-s : v
26	v	v	10	10, shs, hl, r
27	m	w N : m	10	10
28	v	v	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
29	v	v	o : 7, cu, ci.-cu	7, cu, ci.-cu : 10
30	w	w : s	10, cu, ci.-cu	10, cu, ci.-cu : oc.-shs.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 53°·2 on the 19th; and the lowest was 31°·2 on the 26th.

The mean ,, was 40°·0, being 0°·1 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·247, being 0in·003 *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2·8, being 0·1 *less* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 82 (that of Saturation being represented by 100), being 3 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 543 grains, being 1 grain *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·8.

WIND.

The proportions were of N. 6, S. 10, W. 7, and E. 7. The greatest pressure in the month was [illegible] on the square foot on the 1st.

RAIN.

Fell on 18 days in the month, amounting to 1in·4, as measured in the simple cylinder gauge partly sunk below the ground; being 0in·9 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest on the Sun, as shown by a Black-bulb Thermometer in vacuo.	Lowest on the Grass (or Radiating Thermometer).	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day for 17 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air in each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
May 1	First Qr.	29·958	56·7	36·7	44·5	37·9	79·6	32·8	..	..	6·6	12·8	3·1	— 5·5	N	NE; Calm	0·0	0·0	0·0	15	0·00
2	..	29·970	59·0	39·3	46·4	40·1	85·0	30·0	..	..	6·3	13·2	3·1	— 4·1	Calm	E	0·0	0·0	0·0	35	0·00
3	..	30·002	57·8	32·0	42·3	37·3	79·8	18·8	..	..	5·0	10·9	3·7	— 8·6	NE	NE	2·0	0·0	0·1	55	0·00
4	..	30·010	57·3	31·5	42·6	35·8	75·5	20·0	..	..	6·8	14·4	4·1	— 8·7	NE	NE	1·0	0·0	0·0	60	0·00
5	In Equator	30·108	55·5	31·6	42·8	36·1	77·7	18·8	..	..	6·7	12·6	3·1	— 8·8	NE	N; SE	0·0	0·0	0·0	30	0·00
6	..	30·082	57·5	33·2	44·8	37·6	80·7	21·9	..	..	7·2	15·0	4·1	— 7·0	NE	ESE	1·0	0·0	0·1	55	0·00
7	..	30·027	58·0	32·1	44·1	38·3	73·0	18·1	..	..	5·8	13·0	4·1	— 7·8	NE	NE	0·0	0·0	0·0	50	0·00
8	Apogee	29·847	62·0	34·4	47·0	38·6	85·0	24·0	..	..	8·4	17·7	2·9	— 4·8	NE	NE	0·0	0·0	0·0	75	0·00
9	Full	29·657	65·3	36·3	50·1	43·5	84·8	24·5	..	..	6·6	18·2	0·5	— 1·5	NE	NE	2·5	0·0	0·2	75	0·00
10	..	29·552	56·3	37·1	47·9	45·5	61·5	23·8	..	..	2·4	10·4	1·8	— 3·5	NE	NE	2·0	0·0	0·1	50	0·00
11	..	29·554	72·0	45·8	56·2	51·1	93·5	36·1	..	..	5·1	14·4	2·7	+ 4·9	ENE	Calm; S	0·0	0·0	0·0	55	0·05
12	Greatest Declination S.	29·864	66·0	45·8	54·9	50·1	82·0	34·1	..	..	4·8	12·0	2·7	+ 3·6	S; SW	SSW	0·0	0·0	0·0	80	0·03
13	..	29·911	70·5	53·0	58·6	50·4	82·3	50·7	..	..	8·2	15·8	5·0	+ 7·2	SW	Calm; E	0·0	0·0	0·0	60	0·00
14	..	29·866	69·1	49·0	58·5	49·9	89·4	42·0	..	..	8·6	14·8	5·6	+ 6·7	E	E	0·0	0·0	0·0	65	0·00
15	..	29·935	78·0	45·4	62·5	50·3	80·5	..	..	..	12·2	23·1	0·6	+ 10·3	E	Calm	0·0	0·0	0·0	25	0·00
16	Last Qr.	29·977	80·2	54·7	64·6	52·2	96·0	..	..	..	12·4	18·5	4·6	+12·0	Calm	W	0·0	0·0	0·0	65	0·00
17	..	29·931	77·5	46·5	61·6	47·3	..	38·0	..	..	14·3	24·5	3·4	+ 8·8	SW	W	0·0	0·0	0·0	5	0·00
18	..	29·857	79·0	45·0	62·6	50·8	..	34·4	..	..	11·8	27·2	5·1	— 9·5	SW	SW	0·0	0·0	0·0	115	0·00
19	In Equator	29·806	74·0	49·1	58·8	50·5	98·0	..	..	..	9·3	18·7	3·4	+ 6·5	SW	SW	1·5	0·0	0·1	155	0·00
20	..	29·664	74·5	49·7	58·9	51·1	..	..	..	..	7·8	16·0	2·9	+ 5·3	SW	SW	2·2	0·0	0·2	100	0·00
21	..	29·555	68·0	52·1	59·9	50·3	74·4	..	..	..	9·6	14·2	3·0	+ 6·1	SW	SW	1·0	0·0	0·0	80	0·00
22	Perigee	29·704	59·3	49·5	52·8	48·4	69·3	42·0	..	..	4·4	9·7	1·2	— 1·3	Calm	NE	0·0	0·0	0·0	55	0·28
23	New	29·428	67·8	50·0	56·7	54·8	75·7	46·3	..	..	1·9	6·1	0·6	+ 2·4	NE	NE; Calm	0·0	0·0	0·0	40	0·07
24	..	29·406	68·2	51·2	56·3	47·9	89·2	51·0	..	..	8·4	19·4	3·0	+ 1·9	SW	Calm	0·0	0·0	0·0	110	0·00
25	Greatest Declination N.	29·304	73·2	48·2	59·3	48·8	93·5	40·0	..	..	10·5	22·7	2·0	+ 4·7	SE	SE; SW	2·5	0·0	0·3	125	0·12
26	..	29·477	69·8	46·6	55·6	47·2	88·2	39·8	..	..	8·4	15·0	1·5	+ 0·9	S	S	0·0	0·0	0·0	70	0·00
27	..	29·653	71·5	45·4	57·1	47·3	92·4	37·5	..	..	9·8	17·6	1·8	+ 2·2	S; SW	SW	0·0	0·0	0·0	35	0·00
28	..	29·679	74·0	42·9	58·2	49·5	93·0	33·6	..	..	8·7	20·5	2·0	+ 3·0	SW; NE	E	0·0	0·0	0·0	50	0·00
29	..	29·790	64·4	49·7	55·6	49·8	76·5	46·7	..	..	5·8	12·4	2·7	+ 0·2	E	NE	0·0	0·0	0·0	50	0·00
30	First Qr.	29·889	68·1	50·9	55·9	46·8	95·0	48·7	..	..	9·1	13·7	2·8	+ 0·2	N	NE	0·0	0·0	0·0	90	0·00
31	In Equator	29·936	69·5	45·9	56·2	45·7	93·5	37·8	61·7	..	10·5	20·5	3·8	+ 0·1	NE	NE	0·0	0·0	0·0	60	0·00
Means	..	29·786	67·1	44·0	54·7	46·2	83·8	34·3	..	..	7·8	16·0	2·9	+ 1·1	...	...	..	..	..	Sum 1990	Sum 0·55

BAROMETER READINGS.

The absolute maximum in the month was 30in·116 on the 5th; the first minimum in the month was 29in·513 on the 11th.
The second maximum ,, was 30in·005 on the 16th; the absolute minimum ,, was 29in·252 on the 25th.
The third maximum ,, was 29in·951 on the 31st.
The range in the month was 0in·864
The mean for the month was 29in·786, being 0in·022 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 80°·2 on the 16th; the lowest was 31°·5 on the 4th; and the range in the month was 48°·7.
The mean ,, of all the highest daily readings was 67°·1, being 2°·9 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 44°·0, being 1°·2 *lower* than the average of the preceding 17 years.
The mean daily range was 23°·1, being 3°·1 *higher* than the average of the preceding 17 years.
The mean for the month was 54°·0, being 1°·1 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
May 1	w	w	10, r	5, cu, ci.-cu : 1
2	v	v	0, h : 10, th.-r	10
3	s	s	5, cu, cu.-s	5, cu : 0
4	w	w : s	10, ci.-cu, ci.-s	5, ci.-cu, ci.-s : 0
5	w	w	5, cu, ci.-cu, li. cl : 10, ci.-cu, cu.-s	10, ci.-cu, cu.-s, ci.-s, sl.-r
6	v	v	5, cu, cu.-s, li.-cl	5, cu, ci.-cu : 0
7	w	w : s	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, s : 0
8	m	m	5, cu	5, cu, ci.-cu : 0
9	s : w N	s	0 : 10, r	10, oc.-r : 0
10	0	0	10, sh.-r	10, ci.-s, oc.-r
11	0	0 : m	10, sl.-r	10, cu, ci.-cu, ci.-s 0, l
12	0	0 : w	10	10, ci.-cu, ci.-s, r
13	v	v	7, ci.-cu, li.-cl	10, ci.-cu, ci.-s : 0
14	m	m	0	0
15	w	w	2, ci.-s, ci	2, ci.-s, ci : 10, l
16	w	w	10, ci.-cu, ci.-s	10 : l
17	w	w	0, h	0
18	v	v	0	0
19	v	v	5, ci.-cu, li.-cl	5, cu, ci.-cu : 0
20	w	w	10 : 0	0 : 7, cu, ci.-cu
21	v	v	10, r	10, ci.-cu, li.-cl : 7, th.-r
22	ss N, ss P	ss N, ss P	10, th.-r	10, h.-r
23	w	w	10, m.-r	10, ci.-cu, ci.-s, ci : th.-r
24	0	0 : w	7, cu, ci.-cu	7, cu, ci.-cu : 0
25	0	w : 0	3, ci.-cu	7, ci.-cu : 10, r
26	w	w	10, ci.-cu, cu.-s, th.-r : 5, ci.-cu, ci.-s	5, cu, ci.-cu, ci
27	m	m	7, cu, ci.-cu	5, cu, ci.-s
28	m	m : s	10, ci.-s, ci	10, ci.-cu, ci : 0
29	s	s	10	10
30	w	w	10, ci.-cu, ci.-s	10, ci.-s, th.-r : 0
31	0	0	0	0

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·6 on the 16th; and the lowest was 34°·6 on the 4th.

The mean ,, was 46°·2, being 0°·7 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·313, being 0ⁱⁿ·015 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was ,,ᵍʳ·5, being 0ᵍʳ·1 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 75 (that of Saturation being represented by 100), being 2 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 537 grains, being 2 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 6·1.

WIND.

The proportions were of N. 8, S. 6, W. 4, and E. 13. The greatest pressure in the month was 2ˡᵇ·5 on the square foot on the 9th.

RAIN.

Fell on 5 days in the month, amounting to 0ⁱⁿ·6, as measured in the simple cylinder gauge partly sunk below the ground; being 1ⁱⁿ·4 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahr.)	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Radiation. Highest Solar Rays, by Self-Registering Thermometer, read at 9h A.M.	Radiation. Lowest on the Grass, by Self-Registering Thermometer, read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Dew and the Mean Temperature of the same Days on an Average of 8 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wollaston's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in
June 1	..	29·864	68·0	39·3	54·2	45·6	89·5	30·8	60·4	..	8·6	19·3	5·8	— 2·2	NE	E	2·0	0·0	0·0	55	0·00
2	..	29·727	71·8	42·8	56·8	46·7	97·3	29·6	61·7	..	10·1	20·7	6·6	+ 0·2	E; SE	SW	0·0	0·0	0·0	65	0·00
3	..	29·841	72·0	48·3	57·1	53·0	94·0	40·3	62·8	60·2	4·1	9·9	3·2	+ 0·3	SW	SW	2·5	0·0	0·1	145	0·05
4	Apogee	29·985	78·6	55·3	64·5	52·9	103·0	38·7	62·2	60·7	11·6	18·7	8·9	+ 7·4	SW	SW; S	0·0	0·0	0·0	90	0·00
5	..	29·923	82·9	49·8	67·3	54·3	106·7	41·8	64·4	61·2	13·0	26·2	10·8	+ 10·2	S	S; Calm	0·0	0·0	0·0	60	0·00
6	..	29·866	76·5	58·4	68·5	58·6	103·3	56·5	64·7	64·2	9·8	20·6	2·0	+ 11·2	Calm	Calm	0·0	0·0	0·0	30	0·18
7	Full	29·6[illegible]	7[illegible]	[illegible]	62·2	59·1	81·6	[illegible]	64·7	64·0	3·1	9·1	1·5	+ 4·9	SE	SW	2·0	0·0	0·3	270	0·23
8	Greatest Declination S.	29·618	69·0	52·4	58·0	50·2	88·0	46·6	65·2	63·2	7·8	20·5	2·0	+ 0·6	SW	SW	3·5	0·0	1·0	225	0·30
9	..	29·626	69·6	49·0	56·6	50·0	92·2	48·2	65·7	63·2	6·6	18·5	0·8	— 0·9	SW	SW	2·0	0·0	0·3	120	0·14
10	..	29·451	67·3	46·4	54·4	47·6	90·0	40·0	63·2	62·7	6·8	15·3	1·4	— 3·3	WSW	W	0·0	0·0	0·0	155	0·04
11	..	29·772	68·5	46·6	54·4	44·9	89·0	40·0	63·7	62·2	9·5	21·4	1·9	— 3·6	W; NW	N	1·5	0·0	0·0	85	0·00
12	..	30·064	68·5	40·7	53·1	45·5	94·0	36·5	62·7	62·2	7·6	18·2	3·2	— 5·2	N; NE	NE; SE	0·0	0·0	0·0	25	0·00
13	..	30·138	68·0	38·9	53·5	45·1	95·0	31·0	62·7	62·2	8·4	18·4	0·7	— 5·0	SE; E	SE	0·0	0·0	0·0	50	0·00
14	..	29·943	69·0	38·8	54·2	47·8	95·0	29·5	63·5	63·2	6·4	15·3	4·3	— 4·6	SE	E	1·0	0·0	0·0	110	0·00
15	Last Quarter In Equator.	29·802	67·4	45·7	56·3	45·5	88·5	35·8	62·2	62·0	10·8	19·4	6·2	— 2·7	SE	E	3·0	0·0	0·6	135	0·00
16	..	29·798	70·9	45·5	57·5	46·4	92·2	38·7	61·7	60·7	11·1	23·0	6·2	— 1·8	NE	NE	2·0	0·0	0·3	145	0·00
17	..	29·940	75·7	51·7	60·8	49·4	95·0	..	62·7	62·0	11·4	20·7	4·8	+ 1·4	NE	NE	1·3	0·0	0·0	100	0·00
18	..	30·015	75·0	46·3	59·2	52·0	96·0	..	63·7	61·7	7·2	17·9	5·8	— 0·3	NE	NE	1·0	0·0	0·0	115	0·00
19	..	29·869	83·7	49·6	65·2	56·3	106·0	..	63·2	63·2	8·9	21·3	2·3	+ 5·6	NE	E	1·8	0·0	0·4	100	0·00
20	Perigee	29·809	84·0	59·5	69·1	60·9	93·5	..	64·7	63·2	8·2	13·8	1·0	+ 9·3	E	Calm	0·0	0·0	0·0	20	0·85
21	New Greatest Dec. N.	29·838	80·0	60·3	67·9	61·4	100·5	56·0	64·1	62·7	6·5	17·7	1·7	+ 8·0	Calm	SW	0·0	0·0	0·0	40	0·21
22	..	30·006	72·8	55·0	60·8	57·2	89·0	57·0	64·7	63·7	3·6	11·5	1·2	+ 0·8	W	Calm	0·0	0·0	0·0	5	0·00
23	..	30·068	82·5	55·7	66·6	60·9	105·0	..	64·7	63·2	5·7	16·9	0·6	+ 6·4	Calm	E	0·0	0·0	0·0	20	0·00
24	..	30·141	83·0	54·0	68·2	55·2	109·0	49·2	66·2	63·2	13·0	25·3	0·0	+ 7·8	Calm	E	0·0	0·0	0·0	40	0·00
25	..	30·245	84·8	50·7	67·5	54·6	108·6	42·7	66·7	64·2	12·9	28·1	2·1	+ 6·9	E; NE	SE	0·0	0·0	0·0	20	0·00
26	..	30·156	86·6	51·8	69·1	58·8	113·3	44·0	69·7	67·2	10·3	30·1	1·4	+ 8·3	SE	Calm	0·0	0·0	0·0	30	0·00
27	..	30·054	88·5	53·5	71·0	59·5	116·0	..	71·7	68·5	11·5	33·4	1·8	+ 10·0	Calm	Calm	0·0	0·0	0·0	25	0·00
28	In Equator	29·679	92·7	53·3	73·7	62·6	119·0	..	72·4	70·0	11·1	33·4	4·2	+ 12·4	Calm	SW	1·5	0·0	0·0	145	0·00
29	First Qr.	29·547	76·5	58·6	65·2	57·9	96·6	52·5	70·9	68·2	7·3	20·9	4·2	+ 3·7	SW	SW	1·5	0·0	0·3	125	0·00
30	..	29·428	74·2	56·9	61·7	57·0	92·2	57·2	69·9	66·4	4·7	9·4	2·3	+ 0·2	S	SW	0·0	0·0	0·0	55	0·09
Means	..	29·858	76·0	50·5	61·8	53·2	98·0	43·6	64·9	63·5	8·6	19·9	3·3	+ 2·9	...	...	..	..	..	Sum 3605	Sum 2·09

BAROMETER READINGS.

The first maximum in the month was $29^{in}\cdot991$ on the 4th; the absolute minimum was $29^{in}\cdot396$ on the 10th.
The second maximum was $30^{in}\cdot175$ on the 13th; the third minimum was $29^{in}\cdot780$ on the 16th.
The third maximum was $30^{in}\cdot036$ on the 18th; the fourth minimum was $29^{in}\cdot788$ on the 20th.
The absolute maximum was $30^{in}\cdot254$ on the 25th; the fifth minimum was $29^{in}\cdot411$ on the 30th.
The range in the month was $0^{in}\cdot858$.
The mean for the month was $29^{in}\cdot858$, being $0^{in}\cdot063$ *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 92°·7 on the 28th; the lowest was 38°·8 on the 14th; and the range in the month was 53°·9.
The mean of all the highest daily readings was 76°·0, being 5°·4 *higher* than the average of the preceding 17 years.
The mean of all the lowest daily readings was 50°·5, being 0°·7 *higher* than the average of the preceding 17 years.
The mean daily range was 25°·5, being 5°·3 *higher* than the average of the preceding 17 years.
The mean for the month was 61°·8, being 3°·2 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
June 1	o	w : o	5, cu, ci.-cu, ci.-s	: o	o	
2	m	m	o		5, cu, ci.-cu	: o
3	w	sN sps, g cur : m	10, th.-r		10, h.-r	
4	w	w	5, cu, ci.-cu		5, cu, ci.-cu, ci	: o
5	m	m	o		3, ci.-s, ci	: o
6	w	ssN,ssP,sps,g cur: o	8, ci.-cu		10, r, t	
7			10, h.-r		10	
8			10		7, oc.-sqs, w, r	: o
9			10, cu, ci.-cu, cu.-s	: th.-r	10, cu, ci.-cu, ci.-s, r	
10			10, r		8	
11			10, ci.-cu, ci.-s	: th.-r	10, ci.-cu, ci.-s	:
12			3, ci.-cu	: o	o	
13			o		o	
14			o		o	
15			o		o	
16			o		10, ci.-s	: th.-r
17			10, ci.-cu, ci.-s		10, ci.-cu, ci.-s	: 5
18			o		o	
19			o		o	: 10, ci.-cu, ci -s, r, l
20			10, ci.-cu, ci.-s, t-s		10, cu, ci.-cu, ci.-s	
21			7, r, h		7, cu, ci.-cu, h	
22			10		o	
23			o, h		o	
24			o		o	
25			o		o	
26			o		o	
27			o		o	
28			o		7, cu, ci.-s	
29			10, cu, ci.-cu, li.-cl		10, cu, ci.-cu, ci.-s	
30			10, h.-r		10, shs.-r	: 10, cu, ci.-cu, ci.-s, l

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 66°·8 on the 28th; and the lowest was 42°·0 on the 11th.

The mean ,, was 53°·2, being 2°·7 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·406, being 0in·039 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4gr·5, being 0gr·5 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 74 (that of Saturation being represented by 100), being the same as the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 530 grains, being 1 grain *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 4·8.

WIND.

The proportions were of N. 5, S. 11, W. 5, and E. 9. The greatest pressure in the month was 3lbs·5 on the square foot on the 8th.

RAIN.

Fell on 9 days in the month, amounting to 2in·1, as measured in the simple cylinder gauge partly sunk below the ground; being 0in·3 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—The electrical apparatus was under repair from June 7 to July 1 inclusive.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest on the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
July 1	..	29·651	68·5	53·0	59·0	55·4	84·0	..	68·9	66·5	3·6	12·4	1·2	— 2·5	Calm	NE	0·0	0·0	0·0	90	0·01
2	Apogee	29·893	66·2	52·1	57·0	50·5	77·7	..	68·2	66·2	6·5	15·5	2·6	— 4·4	NE	Calm	0·0	0·0	0·0	15	0·03
3	..	29·842	70·1	52·2	59·8	50·5	89·0	45·7	69·2	67·2	9·3	17·1	3·0	— 1·6	S	SW	0·0	0·0	0·0	130	0·00
4	..	29·706	68·0	55·9	60·8	56·9	71·0	53·4	68·7	66·2	3·9	8·9	1·7	— 0·7	SW	SW	1·3	0·0	0·1	85	0·15
5	..	29·593	69·4	57·5	61·6	57·8	79·0	53·0	65·7	61·4	3·8	10·4	2·3	0·0	SW	S; SW	1·5	0·0	0·0	125	0·12
6	Greatest Declination S.	29·556	70·2	49·5	59·0	50·2	75·0	..	67·5	65·2	8·8	17·3	0·4	— 2·7	SW	NNW	3·0	0·0	0·3	125	0·12
7	Full	29·770	66·0	47·4	54·7	46·5	80·9	..	67·7	62·7	8·2	14·4	1·3	— 7·1	NW	NW	1·0	0·0	0·0	100	0·00
8	..	29·802	66·9	45·7	55·1	47·5	83·5	..	66·2	63·6	7·6	12·7	4·2	— 6·6	NW	NW; W	0·0	0·0	0·0	80	0·00
9	..	29·749	73·5	47·9	59·6	48·2	95·0	..	65·7	62·2	11·4	19·8	6·9	— 1·9	W	NW	0·0	0·0	0·0	75	0·00
10	..	29·813	79·0	51·3	62·0	54·8	104·8	..	65·5	63·5	7·2	19·7	2·8	+ 0·5	SW	SW	2·0	0·0	0·1	115	0·00
11	..	29·936	79·4	56·6	65·4	55·5	104·7	..	66·2	62·7	9·9	17·5	4·4	+ 3·8	SW	SW	0·5	0·0	0·0	90	0·00
12	In Equator	30·133	84·5	53·4	68·2	57·8	111·0	46·2	65·7	62·2	10·4	26·9	2·2	+ 6·5	SW	SW	1·5	0·0	0·0	75	0·00
13	..	30·177	84·4	56·0	69·4	57·4	114·0	51·7	67·5	64·4	12·0	27·5	4·6	+ 7·6	SW	W; Calm	0·0	0·0	0·0	50	0·00
14	Last Qr.	30·118	87·7	51·0	69·5	58·1	110·0	48·4	68·9	64·8	11·4	29·0	3·2	+ 7·8	NE	Calm	0·0	0·0	0·0	25	0·00
15	..	29·844	89·7	57·7	72·7	58·2	115·6	52·5	70·3	66·2	14·5	24·0	3·8	+11·0	Calm	W	1·0	0·0	0·1	50	0·00
16	..	29·722	78·0	57·2	66·7	53·9	101·0	50·0	70·7	67·0	12·8	24·0	3·8	+ 5·0	W	NW	3·0	0·0	0·3	90	0·00
17	Perigee	29·938	77·1	50·9	63·0	55·7	102·4	..	71·9	65·2	7·3	23·0	1·0	+ 1·3	W	W; SW	0·0	0·0	0·0	45	0·15
18	..	30·051	81·0	54·6	66·4	58·0	106·0	..	71·9	65·2	8·4	24·0	5·0	+ 4·7	SW	WSW	0·0	0·0	0·0	65	0·00
19	Greatest Declination N.	29·968	83·0	57·0	69·0	59·2	105·0	54·0	71·9	67·2	9·8	21·1	2·0	+ 7·3	Calm	SW	0·0	0·0	0·0	70	0·00
20	..	29·847	84·7	57·3	69·3	58·3	109·8	48·0	71·9	69·2	11·0	25·7	2·3	+ 7·7	Calm; NW	NW	3·0	0·0	0·3	140	0·00
21	New	29·918	78·5	51·7	64·5	54·7	102·2	44·5	71·9	69·2	9·8	25·3	2·7	+ 3·0	W	SW	3·0	0·0	0·5	180	0·03
22	..	29·795	79·8	60·0	66·3	57·3	98·2	..	70·9	66·2	9·0	19·9	2·7	+ 4·8	SW	N	2·0	0·0	0·1	100	0·00
23	..	29·834	86·0	59·5	71·4	59·1	110·0	51·4	71·9	68·2	12·3	22·4	8·3	+ 9·9	SW	W	1·0	0·0	0·0	180	0·00
24	..	29·741	84·6	58·9	70·8	56·8	105·5	..	..	67·8	14·0	24·5	2·9	+ 9·2	SW	SW	5·0	0·0	1·0	335	0·00
25	In Equator	29·687	78·5	59·6	67·0	54·5	96·0	..	..	63·2	12·5	21·6	4·4	+ 5·2	SW	SW	3·0	0·0	0·5	150	0·00
26	..	29·838	79·0	49·9	61·5	53·0	100·0	41·0	..	67·2	8·5	26·2	5·3	— 0·6	W	W	0·0	0·0	0·0	75	0·00
27	..	29·769	78·0	56·1	65·6	58·4	96·0	48·1	..	67·2	7·2	17·7	5·8	+ 3·3	SSW	SW	3·0	0·0	0·5	185	0·00
28	First Qr.	29·813	74·8	58·0	63·7	55·3	89·8	58·2	..	66·2	8·4	19·8	3·2	+ 1·2	SW	N	1·0	0·0	0·0	40	0·60
29	Apogee	29·980	82·0	49·5	64·6	53·5	105·0	42·8	71·4	66·7	11·1	27·9	4·2	+ 2·1	NE	Calm	0·0	0·0	0·0	40	0·00
30	..	29·860	78·7	53·2	65·9	56·9	103·0	46·1	68·4	67·0	9·0	18·9	2·8	+ 3·4	W	SW	2·0	0·0	0·1	160	0·00
31	..	29·900	83·4	62·1	70·8	57·6	109·4	56·3	69·4	66·0	13·2	25·2	6·3	+ 8·3	WSW	W	1·5	0·0	0·0	80	0·00
Means	..	29·847	77·9	54·3	64·5	55·1	97·9	49·5	69·0	65·6	9·4	20·7	3·5	+ 2·8	...	...	..	..	..	Sum 3165	Sum 1·27

BAROMETER READINGS.

The first maximum in the month was 29in·912 on the 2nd; the absolute minimum in the month was 29in·496 on the 5th.
The absolute maximum ,, was 30in·193 on the 13th; the second minimum ,, was 29in·699 on the 16th.
The third maximum ,, was 30in·064 on the 18th; the third minimum ,, was 29in·633 on the 25th.
The fourth maximum ,, was 30in·026 on the 29th; the fourth minimum ,, was 29in·852 on the 30th.
The range in the month was 0in·697.
The mean for the month was 29in·847, being 0in·055 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 89°·7 on the 15th; the lowest was 45°·7 on the 8th; and the range in the month was 44°·0.
The mean ,, of all the highest daily readings was 77°·9, being 4°·6 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 54°·3, being 1°·1 *higher* than the average of the preceding 17 years.
The mean daily range was 23°·6, being 3°·5 *higher* than the average of the preceding 17 years.
The mean for the month was 64°·5, being 2°·8 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
July 1			10, cu, ci.-cu, ci, t	10, th.-r
2	w	w	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 0
3	w	w	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 10, sl.-r
4	0	0	10, r	10, shs.-r
5	w	0	10, s, ci.-s, shs.-r	10 : oc.-shs.-r
6	w	ss, sps, g cur	10, cu, ci.-cu	10, cu, ci.-cu
7	0	0	10	10
8	0	0 : w	10	10, ci.-cu, ci.-s : 0, f
9	0	0	7, ci.-cu	7, cu, ci.-cu : 0
10	0	ss N,sps, g cur : s	9, ci.-cu, ci.-s	10, ci.-cu, ci.-s h.-r : 0
11	v	v	7, cu, ci.-cu	7 : 10 : 0
12	v	v	0	0
13	w	w : s	0	7, ci.-cu, ci.-s : 0
14	v	v	0	0
15	w	0	0, h	10, cu, ci.-cu, ci.-s : 0
16	v	v	7, ci.-cu	7, cu, cu.-s, ci.-s : 10, h.-r
17	w	w	8, ci.-cu, ci	v, cu, ci.-cu, ci.-s
18	v	v	0	10, cu, ci.-cu : 0
19	0	0	8, ci.-cu, sl.-r	0
20	w	w	5, cu, ci.-cu, ci.-s	5, ci.-cu, ci.-s
21	v	v	7, s, ci-s : 10, cu, ci.-cu	10 : shs.-r
22	0	0	10, ci.-cu, ci.-s : 7, cu, ci.-cu	7, ci.-cu, ci.-s
23	w	w	3, cu, ci.-cu	3, s, ci : 10
24	w : n	w	0	3, ci, ci.-s : 5, ci.-s, ci
25	0	0 : w	10, oc.-r	7, cu, ci.-cu, ci : 0
26	s	s	10, s, ci.-s, oc.-r	7 : h
27	s : w	w : s	10	7, ci.-cu, ci.-s : 10
28	0	0 : w	10, l, t, r : 10, oc.-r	7, cu, ci.-cu : 0, h
29	v	v	0	7, ci.-cu : 0
30	s	s	0, h : 10	10
31	0	v	7, cu, ci.-cu	7 : 0

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 63°·1 on the 20th; and the lowest was 45°·6 on the 7th.

The mean ,, was 55°·1, being 1°·3 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·434, being 0in·019 *higher* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4gr·9, being 0gr·3 *higher* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 73 (that of Saturation being represented by 100), being 3 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 526 grains, being 1 grain *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·4.

WIND.

The proportions were of N. 5, S. 9, W. 16, and E. 1. The greatest pressure in the month was 5lbs on the square foot on the 24th.

RAIN.

Fell on 9 days in the month, amounting to 1in·3, as measured in the simple cylinder gauge partly sunk below the ground; being 1in·3 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day for an Average of 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wind. Robinson's Anemometer at 10 feet above Ground. Horizontal Movement of the Air in miles.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 1	..	29·933	79·8	58·3	66·9	57·7	97·0	50·0	69·9	66·5	9·2	21·0	4·0	+ 4·4	SW	SW	0·0	0·0	0·0	80	0·00
2	Greatest Declination S.	29·968	80·7	61·7	68·2	59·3	103·0	45·0	70·4	66·8	9·9	18·9	5·3	+ 5·9	SW	SW	0·0	0·0	0·0	30	0·00
3	..	29·829	88·0	56·0	72·6	57·6	108·0	50·0	70·4	67·8	15·0	27·5	3·2	+10·4	SSW	S; SW	1·5	0·0	0·0	60	0·00
4	..	29·782	87·6	59·9	72·8	59·0	114·0	51·7	71·4	67·7	13·8	23·3	4·4	+10·7	SW	SW; NW	0·0	0·0	0·0	45	0·00
5	Full	29·709	77·2	58·5	64·1	58·3	87·0	..	71·7	68·7	5·8	16·3	1·7	+ 2·1	NW	Calm	0·0	0·0	0·0	15	0·01
6	..	29·566	76·0	57·0	62·7	54·9	95·0	54·0	71·4	68·7	7·8	17·3	3·6	+ 0·7	Calm	SW; N	1·0	0·0	0·0	45	0·52
7	..	29·523	69·5	52·4	58·7	52·5	85·4	52·8	70·9	68·2	6·2	13·7	2·2	— 3·3	Calm	SW	0·0	0·0	0·0	70	0·23
8	..	29·552	65·5	54·3	57·0	52·2	75·0	51·1	69·9	67·7	4·8	11·5	0·8	— 5·0	SW	SW	0·0	0·0	0·0	90	0·05
9	In Equator	29·690	71·0	56·0	60·8	54·8	86·0	54·0	69·2	66·7	6·0	14·2	0·0	— 1·1	WSW	SW	0·0	0·0	0·0	40	0·03
10	..	29·931	78·0	50·5	63·5	56·2	97·6	45·9	69·2	66·7	7·3	18·9	1·3	+ 1·7	SW	W	0·0	0·0	0·0	20	0·00
11	..	29·985	77·5	60·7	66·7	59·1	88·0	54·0	68·7	66·4	7·6	15·1	2·5	+ 5·0	SW	Calm	0·0	0·0	0·0	40	0·11
12	Perigee: Last Quarter	29·959	83·0	58·0	67·4	60·2	103·0	45·0	68·7	67·3	7·2	16·8	2·9	+ 5·8	SW	Calm	0·0	0·0	0·0	15	0·00
13	..	29·744	83·6	57·3	68·6	60·5	105·0	41·5	68·9	67·7	8·1	16·5	4·2	+ 7·1	SE	S; Calm	2·5	0·0	0·0	55	0·00
14	..	29·550	71·5	54·3	60·2	57·8	84·0	49·0	69·8	67·7	2·4	10·6	1·4	— 1·3	Calm	W	3·0	0·0	0·2	45	1·12
15	Greatest Declination N	29·675	69·4	50·8	58·6	55·2	82·5	41·0	70·9	67·5	3·4	12·4	1·4	— 2·8	SW	Calm	0·0	0·0	0·0	55	0·26
16	..	29·687	83·0	54·5	68·0	61·4	100·0	..	69·9	67·7	6·6	22·8	1·8	+ 6·6	NE	NE	3·0	0·0	0·5	145	0·28
17	..	29·849	73·5	56·7	61·7	52·5	98·8	..	69·2	67·2	9·2	18·2	3·4	+ 0·4	NNE	N	2·0	0·0	0·0	70	0·00
18	..	29·947	75·0	51·7	63·1	54·5	97·7	38·7	69·2	67·0	8·6	18·4	3·4	+ 2·0	N	N; NE	0·0	0·0	0·0	30	0·00
19	New	29·992	76·2	56·7	64·5	56·5	101·3	42·2	67·7	65·7	8·0	18·0	4·2	+ 3·6	NNE	NE	0·0	0·0	0·0	70	0·00
20	..	29·977	72·7	60·9	64·6	58·3	77·5	53·3	68·2	65·3	6·3	12·8	3·0	+ 3·8	NE	NE	1·5	0·0	0·0	95	0·04
21	..	29·936	78·0	57·5	64·8	55·6	101·0	46·0	67·7	65·7	9·2	21·4	4·0	+ 4·2	NE	SE; E	0·0	0·0	0·0	55	0·00
22	In Equator	29·819	81·7	58·9	69·2	62·1	101·5	55·5	67·9	66·0	7·1	18·4	4·3	+ 8·8	ENE	E	0·0	0·0	0·0	55	0·00
23	..	29·654	85·9	59·5	72·4	63·6	99·0	59·0	68·2	67·0	8·8	22·3	1·5	+12·1	SE	ESE	2·0	0·0	0·0	60	0·00
24	..	29·651	84·8	63·7	73·6	63·2	105·2	..	69·9	68·0	10·4	20·6	2·4	+13·3	E	SE	0·0	0·0	0·0	30	0·00
25	..	29·913	82·7	60·8	70·1	60·7	106·4	50·5	70·1	67·7	9·4	22·3	4·2	+ 9·9	Calm	SW	0·0	0·0	0·0	60	0·00
26	Apogee	30·130	79·0	55·2	66·1	56·9	94·0	..	70·4	67·7	9·2	20·2	5·6	+ 6·2	Calm	Calm	0·0	0·0	0·0	5	0·00
27	First Qr.	30·140	79·0	52·6	64·8	56·3	102·4	..	70·9	68·0	8·5	19·9	2·6	+ 5·1	Calm	N; Calm	0·0	0·0	0·0	25	0·00
28	..	30·121	72·8	48·8	60·6	53·3	96·3	38·0	71·4	68·7	7·3	20·0	3·4	+ 1·0	Calm; N	NE	0·0	0·0	2·0	55	0·00
29	Greatest Declination S.	29·993	69·2	56·0	61·0	54·3	78·7	..	70·9	68·2	6·7	14·6	1·9	+ 1·6	NE	NE	0·0	0·0	0·0	30	0·00
30	..	29·867	82·0	56·1	68·0	59·3	101·7	44·6	..	..	8·7	19·0	3·8	+ 8·9	E	SE	1·5	0·0	0·0	30	0·00
31	..	29·816	86·5	53·5	67·7	57·3	..	..	..	..	10·4	21·6	3·8	+ 8·7	Calm	Calm	0·0	0·0	0·0	25	0·04
Means	..	29·836	78·1	56·4	65·4	57·5	95·7	47·9	69·7	67·3	8·0	18·3	3·0	+ 4·4	...	...	..	..	..	Sum 1545	Sum 2·73

BAROMETER READINGS.

The first maximum in the month was 29in·978 on the 2nd; the absolute minimum in the month was 29in·514 on the 7th.
The second maximum ,, was 30in·009 on the 12th; the second minimum ,, was 29in·538 on the 14th.
The third maximum ,, was 30in·004 on the 19th; the third minimum ,, was 29in·625 on the 23rd.
The absolute maximum ,, was 30in·180 on the 27th.
The range in the month was 0in·666.
The mean for the month was 29in·836, being 0in·041 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 88°·0 on the 3rd; the lowest was 48°·8 on the 28th; and the range in the month was 39°·2.
The mean ,, of all the highest daily readings was 78°·1, being 5°·7 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 56°·4, being 3°·1 *higher* than the average of the preceding 17 years.
The mean daily range was 21°·7, being 2°·6 *higher* than the average of the preceding 17 years.
The mean for the month was 65°·4, being 4°·1 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Aug. 1	w	w	10, sl.-r	10, s, ci.-s, cu.-s
2	s	s	10, ci.-cu, ci.-s	10 : 0
3	w	w	0	0 : 10
4	v	0	0	10, ci.-s
5	w	w	10, th.-r, f	10, cu, ci.-cu : 7, shs.-r
6	0	0	10, cu. ci.-cu, h.-shs.-r	7, cu, ci.-cu : r
7	0	0	10	10 : sl.-r
8	0	w	10, th.-r	10, th.-r
9	s	s N	10 : r	7, th.-r, t : 7, ci, cu, ci.-s, r
10	v	v	0, h	0, h : 10, oc.-r
11	w	w	10	10, th.-r
12	0	0	10	7, cu, ci.-cu
13	s P, s N, sps, g cur	s P, s N, sps, g cur	10, ci.-cu, ci.-s, shs.-r	10, shs.-r : 10, l
14	ss	ss : 0	10, th.-r	10, t : l
15	m	m	10	10, h : r
16	v	v	10 : 0	0
17	v, ss	v, ss	7	7, cu : 0
18	w	w	7, ci.-cu, ci	7, ci.-cu, ci : 10, r
19	m	m : s	10	10
20	w	w	10	10
21	v	v	7 : 0	0
22	w	s	0 : 10	0
23	m	m	0	0
24	v	v	0	0
25	v	v	0	7, cu, ci.-cu : 0
26	s	m	0, f	0, f
27	s	s	0	0
28	m	m	5, cu, ci.-cu, ci : 10	10
29	s	s	10	10 : 0 : r
30	s	s	0	0
31	s	s, sps, g cur	0	10, r : 8

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 66°·5 on the 22nd; and the lowest was 52°·0 on the 17th.

The mean ,, was 57°·5, being 3°·4 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·473, being 0^{in}·050 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 5^{gr}·2, being 0^{gr}·5 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 77 (that of Saturation being represented by 100), being 1 *lower* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 525 grains, being 3 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 5·7.

WIND.

The proportions were of N. 7, S. 9, W. 7, and E. 8. The greatest pressure in the month was 3^{lbs}·0 on the square foot on the 14th and 16th.

RAIN.

Fell on 11 days in the month, amounting to 2^{in}·7, as measured in the simple cylinder gauge partly sunk below the ground; being 0^{in}·2 *greater* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	Depth of Water in the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	Depth of Water in the Thames at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
Sept. 1	..	29.725	75.0	58.5	64.6	57.3	86.3	47.0	..	..	7.3	15.3	2.1	+ 5.8	SW	NW ; W	0.0	0.0	0.0	110	0.17
2	..	29.454	63.5	51.0	53.6	48.1	78.3	46.1	..	..	5.5	9.3	1.6	— 3.0	SW	NW ; SW	0.0	0.0	0.0	95	0.19
3	..	29.413	63.0	46.9	53.7	51.6	65.5	37.3	..	..	2.1	9.5	1.0	— 4.8	SW	S	0.0	0.0	0.0	55	0.20
4	Full	29.434	66.2	48.5	55.3	52.1	80.2	48.0	..	..	3.2	13.1	1.4	— 3.1	S	SW ; S	1.3	0.0	0.0	75	0.24
5	In Equator	29.632	73.2	49.9	60.0	54.1	96.3	40.4	..	..	5.9	17.5	2.8	+ 1.8	Calm ; SW	SW	0.0	0.0	0.0	100	0.00
6	..	29.695	75.7	53.3	62.6	55.9	99.2	45.0	..	..	6.7	18.5	3.4	+ 4.6	SW	SW ; S	0.0	0.0	0.0	60	0.00
7	Perigee	29.725	74.3	51.4	61.4	56.5	91.5	..	..	..	4.9	16.5	2.5	+ 3.6	SW	SW ; SE	0.0	0.0	0.0	40	0.00
8	..	29.362	67.5	56.9	60.7	58.6	68.4	48.9	..	..	2.1	5.2	1.0	+ 3.0	SE ; SW	SW	1.5	0.0	0.0	105	1.00
9	..	29.442	68.4	54.8	60.6	57.2	73.0	54.5	..	..	3.4	8.3	2.5	+ 3.0	SSW	SW ; S	2.5	0.0	0.3	130	0.03
10	Last Qr.	29.577	72.8	57.4	62.3	56.0	91.2	49.9	..	..	6.3	11.5	2.7	+ 4.8	SW	Calm	0.0	0.0	0.0	55	0.00
11	Greatest Declination S.	29.446	61.1	53.6	55.4	53.8	61.1	54.2	..	..	1.6	3.0	0.6	— 2.0	NW	SW	1.5	0.0	0.0	105	1.16
12	..	29.546	71.8	51.9	60.3	56.9	88.4	43.8	..	..	3.4	12.2	1.0	+ 3.0	SSW	Calm	0.0	0.0	0.0	25	0.05
13	..	29.781	72.9	49.5	60.2	58.4	94.4	43.3	..	..	1.8	11.2	0.0	+ 3.0	Calm	Calm ; NW	0.0	0.0	0.0	30	0.00
14	..	29.636	67.0	53.0	59.8	58.9	68.0	45.2	..	..	0.9	3.0	0.0	+ 2.8	Calm	Calm	0.0	0.0	0.0	5	0.25
15	..	29.669	74.7	55.4	62.7	59.6	89.9	48.0	..	..	3.1	7.7	1.7	+ 6.0	Calm	SW	0.0	0.0	0.0	25	0.00
16	..	30.101	77.7	58.3	66.1	60.0	99.2	..	..	..	6.1	13.6	2.7	+ 9.6	SW	SW	0.0	0.0	0.0	35	0.00
17	..	30.099	80.7	53.0	66.7	60.3	104.8	54.5	..	..	6.4	15.6	2.4	+10.4	Calm	SW	0.0	0.0	0.0	50	0.00
18	In Equator : Node	30.075	74.5	54.8	63.1	56.5	92.5	..	..	..	6.6	17.5	1.0	+ 7.1	W ; SW	NE	0.0	0.0	0.0	70	0.00
19	..	30.237	64.0	48.9	56.1	51.8	67.0	40.3	..	..	4.3	8.7	2.6	+ 0.2	NE	NE	0.0	0.0	0.0	65	0.00
20	..	30.226	70.1	51.5	58.6	51.0	91.0	43.4	..	..	7.6	13.5	4.2	+ 3.0	NE	E	0.0	0.0	0.0	20	0.00
21	..	30.103	69.0	41.5	55.4	53.0	90.8	..	..	..	2.4	10.8	0.6	— 0.1	E	NE ; E	0.0	0.0	0.0	10	0.00
22	..	30.050	68.0	49.5	57.3	52.4	83.4	39.7	..	..	4.9	9.1	2.8	+ 1.9	NE	ESE	0.0	0.0	0.0	30	0.08
23	Apogee	29.924	69.8	52.9	60.2	52.9	88.5	46.4	..	..	7.3	13.1	1.4	+ 4.9	E ; SE	ESE	0.0	0.0	0.0	70	0.00
24	..	29.724	73.6	51.6	61.8	57.6	93.0	42.2	..	..	4.2	11.9	3.4	+ 6.8	SE	SW ; S	0.0	0.0	0.0	55	0.10
25	..	29.706	71.0	57.9	62.2	58.4	78.0	53.7	..	..	3.8	7.9	2.1	+ 7.3	S ; SW	SW ; N	0.0	0.0	0.0	20	0.28
26	Greatest Dec. S. First Quarter	29.798	69.4	51.1	58.5	51.8	91.3	43.2	..	..	6.7	15.7	2.6	+ 3.8	N	SW	0.0	0.0	0.0	95	0.00
27	..	29.755	70.0	51.7	60.9	58.1	83.0	44.0	..	..	2.8	6.7	1.6	+ 6.4	S	SW	2.0	0.0	0.1	90	0.00
28	..	29.725	63.0	51.0	56.1	54.9	62.2	49.4	..	..	1.2	3.8	0.6	+ 1.8	Calm	Calm	0.0	0.0	0.0	10	0.17
29	..	29.973	70.3	45.5	57.0	52.8	91.0	36.1	..	..	4.2	12.6	1.4	+ 3.0	Calm	Calm	0.0	0.0	0.0	25	0.00
30	..	29.867	68.3	49.7	57.9	53.7	87.3	42.2	..	..	4.2	13.9	0.0	+ 4.1	SE	Calm	0.0	0.0	0.0	10	0.00
Means	..	29.786	70.2	52.1	59.7	55.3	84.5	45.6	..	..	4.3	11.2	1.8	+ 3.2	...	...	..	..	..	Sum 1670	Sum 3.92

BAROMETER READINGS.

The first minimum in the month was 29in.405 on the 4th.
The first maximum in the month was 29in.761 on the 7th; the absolute minimum ,, was 29in.292 on the 8th.
The absolute maximum ,, was 30in.245 on the 19th; the third minimum ,, was 29in.666 on the 25th.
The range in the month was 0in.953.
The mean for the month was 29in.780, being 0in.055 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 80°.7 on the 17th; the lowest was 41°.5 on the 21st; and the range in the month was 39°.2.
The mean ,, of all the highest daily readings was 70°.2, being 2°.9 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 52°.1 being 3°.5 *higher* than the average of the preceding 17 years.
The mean daily range was 18°.1, being 0°.5 *lower* than the average of the preceding 17 years.
The mean for the month was 59°.7, being 3°.0 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Sept. 1	o : w	o	10, t, h.-r	10, cu, ci.-cu, ci : 7, cu, ci.-cu, ci
2	m	s P, s N, sps, g cur : w	10, th.-r	10, r
3	o	o : s	10, r	10, oc.-r
4	s	s **P**, s **N**, sps, g cur	10, r	10, cu, cu.-s, t.-s, h.-r : o
5	w	w	o	o
6	w	w	7, s, ci, cu.-s, oc.-r	7, ci.-cu.-s, sl.-r : o, l
7	w	w	7, ci.-cu, ci	7, cu, ci.-cu, ci
8			10, r	10, h.-r : 10, oc.-r
9			10, cu, ci-cu, ci	10, ci.-cu, ci.-s, shs.-r
10			7, cu, ci.-cu	7 : 10, sl.-r
11			10, r	10, r
12			10, cu, ci.-cu	10, cu, ci.-cu, h.-r : 7, f
13			o, h	o
14			10, m.-r	8, th.-r : o
15			o, th.-f	7, cu, ci.-cu : 10
16			5, cu, ci.-cu, ci.-s	o
17			o, f	o
18			o, f	o
19			10	10
20	s	o	7, cu, cu.-s, ci.-s	7 : o
21	s	v	o, f : 5, cu,ci.-cu	o : a
22	s	s	10, ci.-cu, ci.-s	10, th.-r : l
23	w	w	o	o : h
24	w	w	7, ci.-cu, ci.-s, r	7, ci.-cu, ci.-s : l
25	s **P**, s **N**, sps, g cur	m	10	10, h.-r
26	v	v	o	7, ci.-s : o
27	v	v	10, ci.-cu, ci.-s, sc	10
28	w	ss, sps, g cur	10, r	10, r : o, f
29	s	s	o	o
30	w	w	7, ci.-s, s	8, ci.-cu, ci.-s : lu.-ha

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 64°·9 on the 17th; and the lowest was 47°·7 on the 2nd.
The mean ,, was 55°·3, being 4°·5 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·437, being 0^{in}·057 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}·9, being 0^{gr}·7 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being 5 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 530 grains, being 4 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 5·8.

WIND.

The proportions were of N. 4, S. 10, W. 10, and E. 6. The greatest pressure in the month was 2^{lbs}·5 on the square foot on the 9th.

RAIN.

Fell on 13 days in the month, amounting to 3^{in}·9, as measured in the simple cylinder gauge partly sunk below the ground; being 1^{in}·5 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—The apparatus was out of order from September 8 to September 19.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Whewell. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°				lbs.	lbs.	lbs.	miles.	in.
Oct. 1	..	29·912	69·0	50·7	58·7	58·0	84·5	41·0	..	..	0·7	7·7	0·0	+ 5·2	Calm	W	0·0	0·0	0·0	60	0·00
2	In Equator	30·031	67·7	50·0	58·4	54·3	87·1	40·0	..	..	4·1	10·6	2·0	+ 5·0	W	SW	0·0	0·0	0·0	175	0·00
3	Full	29·818	64·0	56·0	59·6	52·5	71·8	..	..	..	7·1	12·0	3·8	+ 6·5	WSW	SW	1·5	0·0	0·1	90	0·00
4	..	29·541	62·2	48·5	51·2	51·0	65·0	47·0	..	..	0·2	3·0	0·0	− 1·8	NNW; W	SW	0·0	0·0	0·0	25	0·10
5	Perigee	29·546	61·0	41·9	49·4	45·2	80·0	..	..	..	4·2	10·8	0·0	− 3·4	WSW	WSW; SSW	0·0	0·0	0·0	..	0·05
6	..	29·604	60·5	43·1	50·3	44·2	78·5	36·2	..	..	6·1	11·2	1·5	− 2·2	SW	SW; S	0·0	0·0	0·0	..	0·00
7	..	29·129	63·4	43·1	52·2	50·2	79·0	35·2	..	..	2·0	4·6	0·0	− 0·1	SE	SE; S	3·5	0·0	0·5	205	0·20
8	..	28·772	59·7	47·1	51·5	50·7	59·7	46·4	..	..	0·8	3·6	0·4	− 0·6	SE	WSW; W	2·5	0·0	0·2	185	0·47
9	Greatest Declination N.	29·244	55·0	43·6	48·5	47·0	58·0	35·5	..	..	1·5	3·2	1·2	− 3·4	W	WNW	0·5	0·0	0·0	130	0·01
10	Last Qr.	29·666	62·7	44·2	52·1	46·8	75·0	35·2	..	..	5·3	10·8	1·8	+ 0·4	Calm	SW	0·0	0·0	0·0	60	0·00
11	..	29·805	58·5	47·2	52·6	52·6	58·6	46·5	..	..	0·0	1·7	0·0	+ 1·2	SSE	Var.	0·0	0·0	0·0	10	0·19
12	..	30·019	67·7	55·3	59·7	56·7	74·2	54·0	..	..	3·0	6·5	0·8	+ 8·7	SSW	SSW	0·0	0·0	0·0	30	0·00
13	..	30·076	65·7	51·0	57·1	55·1	74·3	45·2	..	..	2·0	6·3	0·0	+ 6·6	SSW	SE	0·0	0·0	0·0	5	0·00
14	..	29·994	65·8	42·3	53·0	51·9	81·7	38·6	..	..	1·1	9·7	0·0	+ 2·9	SE	E	0·0	0·0	0·0	25	0·00
15	In Equator	29·908	57·0	48·7	52·8	51·4	82·2	41·9	..	..	1·4	3·8	1·2	+ 3·0	Calm	Calm	0·0	0·0	0·0	0	0·00
16	..	29·858	65·0	50·7	55·1	53·9	76·0	50·7	..	..	1·2	4·0	0·0	+ 3·5	NNE	ESE	0·0	0·0	0·0	15	0·00
17	New	29·743	67·2	47·5	55·8	51·5	81·4	43·0	..	..	4·3	7·6	0·6	+ 6·4	SSW	SSW	0·0	0·0	0·0	45	0·00
18	..	29·414	57·0	50·8	53·2	51·9	58·0	44·5	..	..	1·3	3·0	0·2	+ 4·0	SE	E; SE	0·0	0·0	0·0	60	0·28
19	..	29·505	64·8	49·4	54·1	53·4	72·8	45·2	..	..	1·0	4·2	0·4	+ 5·3	Calm	Calm	0·0	0·0	0·0	15	0·00
20	..	29·692	63·7	47·2	54·1	53·3	75·7	39·5	..	..	0·8	4·8	0·2	+ 5·0	Calm; NNE	NNE	0·0	0·0	0·0	55	0·00
21	Apogee	29·573	56·0	49·3	51·4	50·0	58·0	41·7	..	..	1·4	2·4	1·0	+ 2·5	NNE	Var.	0·0	0·0	0·0	55	0·00
22	..	29·467	50·5	42·7	44·3	44·3	50·5	42·2	..	..	0·0	0·0	0·0	− 4·3	N	NNE	4·0	0·0	1·0	155	2·57
23	Greatest Declination S.	29·841	57·0	45·1	49·0	46·9	64·3	42·2	..	..	2·1	6·2	1·5	+ 0·7	Var.	Var.	0·0	0·0	0·0	65	0·00
24	..	29·974	63·0	46·9	53·9	52·0	72·3	37·9	..	..	1·9	5·9	1·2	+ 6·0	ENE; E	E	1·0	0·0	0·3	105	0·00
25	..	29·736	60·2	50·9	54·0	51·6	70·7	48·7	..	..	2·4	6·5	2·0	+ 6·5	ESE	ESE	2·5	0·0	0·1	55	0·00
26	First Qr.	29·680	64·0	44·7	52·5	50·3	83·5	40·0	..	..	2·2	12·2	0·0	+ 5·1	Calm	Calm	0·0	0·0	0·0	30	0·00
27	..	29·661	63·0	46·5	53·9	51·9	71·0	38·2	..	..	2·0	12·2	0·0	+ 6·7	SE	S	0·0	0·0	0·0	40	0·00
28	..	29·871	63·5	47·7	53·3	50·9	77·0	..	..	..	2·4	11·2	0·2	+ 6·3	Calm	Calm	0·0	0·0	0·0	65	0·00
29	..	29·763	58·7	45·9	50·2	47·7	72·8	39·0	..	..	2·5	8·2	0·6	+ 3·4	S	SW	0·0	0·0	0·0	160	0·06
30	In Equator	29·727	57·0	42·9	48·9	44·6	67·2	37·6	..	..	4·3	9·8	1·5	+ 2·3	SW	W	2·0	0·0	0·1	110	0·00
31	..	29·979	59·7	37·8	48·1	45·9	76·3	36·6	..	..	2·2	8·6	1·4	+ 1·6	SW	S	0·0	0·0	0·0	70	0·00
Means	..	29·695	61·6	47·1	52·9	50·6	72·2	41·8	..	..	2·3	6·9	0·8	+ 3·0	...	...	..	..	..	Sum 2100	Sum 3·93

BAROMETER READINGS.

The first maximum in the month was 30in·075 on the 2nd; the absolute minimum in the month was 28in·669 on the 8th.
The absolute maximum ,, was 30in·098 on the 13th; the second minimum ,, was 29in·339 on the 18th.
The third maximum ,, was 29in·720 on the 20th; the third minimum ,, was 29in·457 on the 22nd.
The fourth maximum ,, was 30in·016 on the 24th; the fourth minimum ,, was 29in·636 on the 27th.
The fifth maximum ,, was 29in·913 on the 28th; the fifth minimum ,, was 29in·671 on the 30th.
The sixth maximum ,, was 30in·017 on the 31st.
The range in the month was 1in·429.
The mean for the month was 29in·695, being 0in·014 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 69°·0 on the 1st; the lowest was 37°·8 on the 31st; and the range in the month was 31°·2.
The mean ,, of all the highest daily readings was 61°·6, being 3°·7 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 47°·1, being 3°·7 *higher* than the average of the preceding 17 years.
The mean daily range was 14°·5, being 0°·1 *lower* than the average of the preceding 17 years.
The mean for the month was 52°·9, being 3°·6 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Oct. 1	v	v	0, f	0, f
2	m	m	0	7. ci. ci.-s : 3. s. ci. lu.-s or
3	s	s	10	10
4	s	s	10, sl.-r	10, th.-r
5	m	m : s	0, f	0 : h.-r
6	v	v	0	7, cu, ci.-cu, ci : 0, f
7	v	v	10, m.-r	10, m.-r
8	N,w : sP, sN, sps, g cur	0	10, h.-r	10, h.-r : v, r
9	s	s : 0	10	10, th.-r
10	s	s	2, ci.-cu, ci	2, ci.-cu, ci : 10. r
11	m	m : s	10, f	10, h
12	m	m	10	10 : 0
13	s	s	7, ci-cu, li-cl	7 : 0
14	s	s	0, h	0 : 5, cu, ci.-cu
15	m	s	10, f	10, f
16	s	s	10	10, cu, ci.-cu : 0, f
17	v	v	0	7, cu, ci.-cu : sl.-r
18	0	w : 0	10, r	10 : r
19	0	s	10, r	5, oc.-r
20	s	s : w	8	7, ci.-cu, ci.-s : 10
21	v	v	10, f	10, gt.-glm : m.-r
22	0	0	10, r	10, r : 1
23			8, th.-r	8, cu, ci.-cu, ci.-s
24			10	7, ci.-cu, li.-cl : 0, f
25			10	10 : 0
26			10, th.-f	0 : 7, ci.-cu, f
27			10	7, ci.-cu, ci
28	v	v	10, ci.-cu, ci, f	10, ci.-cu, ci.-s : 10, ci.-s, lu.-ha
29	s	s	0	10, r : 7, lu.-ha
30	s, sps, : w	w	10, ci.-s, s. r	5, ci.-cu, ci.-s
31	s	s	0.	7

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 63°·0 on the 1st ; and the lowest was 42°·0 on the 30th.

The mean ,, was 50°·6, being 5°·1 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·369, being 0in·063 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4gr·1, being 0gr·6 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 93 (that of Saturation being represented by 100), being 7 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 536 grains, being 3 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·6.

WIND.

The proportions were of N. 4, S. 10, W. 10, and E. 7. The greatest pressure in the month was 4lbs·0 on the square foot on the 22nd.

RAIN.

Fell on 9 days in the month, amounting to 3in·9, as measured in the simple cylinder gauge partly sunk below the ground; being 0in·8 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—The apparatus was out of order from October 23 to October 27.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 17 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wind. Will's. Amount of Horizontal Movement of the Air in each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°		°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in
Nov. 1	..	29·770	59·8	45·9	51·6	47·2	71·5	38·2	54·7	52·4	4·4	8·6	2·1	+ 5·2	Calm	SE	0·0	0·0	0·0	60	0·00
2	Full, Perigee	29·548	59·7	43·9	53·1	53·0	61·8	43·0	52·3	50·7	0·1	4·6	0·0	+ 6·9	SE	S	0·0	0·0	0·0	45	0·05
3	..	29·580	64·3	55·4	58·8	56·1	68·5	50·0	52·3	50·2	2·7	4·8	0·6	+12·7	SSE	Calm	0·0	0·0	0·0	40	0·02
4	..	29·677	61·0	51·5	54·8	54·1	64·0	52·0	52·8	50·7	0·7	2·2	0·2	+ 8·9	NE ; E	Calm	0·0	0·0	0·0	10	0·40
5	Greatest Declination N.	29·722	59·2	52·2	55·5	54·5	61·5	52·2	54·7	52·2	1·0	3·0	0·2	+ 9·8	NE	E	0·0	0·0	0·0	10	0·00
6	..	29·868	56·5	46·9	52·2	51·9	61·3	42·5	53·8	51·7	0·3	1·2	0·0	+ 6·7	Calm	NE	0·0	0·0	0·0	25	0·02
7	..	30·072	54·6	48·5	50·4	47·7	55·0	49·0	53·3	51·7	2·7	3·2	1·1	+ 5·3	N ; NE	N	0·0	0·0	0·0	10	0·00
8	Last Qr.	30·194	50·5	42·5	46·6	46·3	50·5	37·0	54·7	52·2	0·3	1·0	0·0	+ 1·8	N	Calm	0·0	0·0	0·0	0	0·00
9	..	30·221	53·0	46·2	49·9	49·4	55·0	46·0	54·7	52·6	0·5	1·8	0·0	+ 5·4	N	NE	0·0	0·0	0·0	5	0·00
10	..	30·352	53·2	48·1	49·7	47·5	54·0	48·0	54·2	52·5	2·2	3·4	0·0	+ 5·4	NE	ENE	0·0	0·0	0·0	45	0·00
11	..	30·557	54·0	40·3	45·6	42·9	63·5	33·2	54·1	52·0	2·7	5·0	0·0	+ 1·6	ENE	E	0·0	0·0	0·0	40	0·00
12	In Equator	30·569	47·2	30·0	39·2	39·2	49·0	23·0	53·7	50·7	0·0	1·3	0·0	− 4·7	Calm	N	0·0	0·0	0·0	20	0·00
13	..	30·330	43·7	32·5	38·0	38·0	44·6	31·5	52·3	49·4	0·0	0·9	0·0	− 5·5	Calm ; NNW	N	0·0	0·0	0·0	20	0·00
14	..	30·162	51·4	41·0	46·8	46·2	53·0	32·0	51·9	48·2	0·6	3·0	0·4	+ 3·5	N	NNE	0·0	0·0	0·0	65	0·00
15	..	30·183	51·5	39·3	44·9	41·3	60·7	34·0	50·8	49·1	3·6	6·7	0·9	+ 1·9	E	NE	0·0	0·0	0·0	50	0·00
16	New	30·046	52·3	39·3	44·3	42·4	56·0	..	50·3	48·5	1·9	4·2	0·0	+ 1·7	NE	SE	0·0	0·0	0·0	40	0·00
17	Apogee	30·014	48·7	35·5	43·8	42·1	49·0	28·5	50·8	48·3	1·7	5·5	0·0	+ 1·4	Calm ; SE	ESE	0·0	0·0	0·0	40	0·00
18	..	30·105	54·4	39·0	46·0	42·7	66·4	31·8	49·8	47·5	3·3	8·2	0·7	+ 3·8	E	E	0·0	0·0	0·0	85	0·00
19	Greatest Declination S.	30·163	45·2	38·5	40·6	39·8	48·0	35·0	48·3	46·8	0·8	3·1	0·0	− 1·6	ESE	SE	0·0	0·0	0·0	5	0·00
20	..	30·162	47·0	41·0	43·7	43·5	50·0	28·0	47·3	45·8	0·2	0·7	0·0	+ 1·5	Calm	W	0·0	0·0	0·0	10	0·00
21	..	30·205	52·7	38·3	46·0	44·9	55·0	30·0	47·3	45·8	1·1	5·4	0·0	+ 4·0	W	S	0·0	0·0	0·0	0	0·00
22	..	29·975	51·3	39·8	45·9	43·1	52·6	33·8	47·3	45·8	2·8	6·0	0·9	+ 4·2	S	S	0·0	0·0	0·0	190	0·00
23	..	29·369	55·3	42·6	48·7	46·3	54·7	37·0	47·7	46·2	2·4	5·3	1·9	+ 7·3	SW	SW	2·5	0·0	0·2	55	0·15
24	First Qr.	29·159	48·7	35·5	40·0	39·1	51·8	34·0	47·3	46·2	0·9	1·8	0·0	− 1·0	SW ; SE	Calm	0·0	0·0	0·0	45	0·50
25	..	29·446	45·0	30·5	38·3	38·2	47·0	30·0	47·3	45·8	0·1	0·5	0·0	− 2·5	Calm	NNE	0·0	0·0	0·0	40	0·10
26	In Equator	29·423	44·0	34·0	37·6	37·2	44·0	32·2	45·3	44·8	0·4	0·9	0·0	− 3·3	N	NE	0·0	0·0	0·0	80	0·03
27	..	29·656	51·2	35·0	42·0	37·8	54·0	28·8	45·3	44·8	4·2	9·7	0·3	+ 0·9	NE	NE	2·5	0·0	0·1	65	0·00
28	..	29·997	47·8	31·8	39·0	36·2	53·6	22·0	45·3	43·3	2·8	6·8	1·0	− 2·5	N	NE	0·0	0·0	0·0	60	0·00
29	..	29·989	47·0	36·3	41·4	40·6	49·8	30·7	44·3	43·5	0·8	3·2	0·0	− 0·2	NE	E	0·0	0·0	0·0	100	0·00
30	..	29·742	47·4	36·2	39·7	36·0	47·4	..	45·3	42·5	3·7	5·9	0·5	− 1·9	ESE	SE	3·3	0·0	0·3	80	0·00
Means	..	29·942	51·9	40·6	45·8	44·2	55·1	36·2	50·2	48·4	1·6	3·9	0·4	+ 2·6	...	..	..	..	..	Sum 1340	Sum 1·27

BAROMETER READINGS.

The first minimum in the month was 29in·535 on the 2nd.
The absolute maximum in the month was 30in·609 on the 12th ; the second minimum ,, was 29in·997 on the 17th.
The second maximum ,, was 30in·230 on the 21st ; the absolute minimum ,, was 29in·087 on the 24th.
The third maximum ,, was 30in·024 on the 28th.
The range in the month was 1in·522.
The mean for the month was 29in·942, being 0in·197 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 64°·3 on the 3rd ; the lowest was 30°·0 on the 12th ; and the range in the month was 34°·3.
The mean ,, of all the highest daily readings was 51°·9, being 2°·4 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 40°·6, being 2°·5 *higher* than the average of the preceding 17 years.
The mean daily range was 11°·3, being 0°·1 *lower* than the average of the preceding 17 years.
The mean for the month was 45°·8, being 2°·2 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Nov. 1	v	v	10, cu, ci.-cu, ci.-s : 7, ci.-cu, ci.-s	7, ci.-s : lu.-cor
2	s	s	10, th.-r	10 : 0
3	w	w : s	10, ci.-cu, ci.-s	10, r
4	w	0 : m	10, h.-r	10, r
5	m	m	10	10
6	0 : w	0	10, th.-f	10, th.-f : r
7	w	w	10, ci.-cu, f	10 : 7, th.-f
8	v	v	10, ci.-cu	10 : th.-f
9	w	w	10, f	10, m.-r
10	v	v	10, th.-r	10, th.-r
11			10, cu, ci.-cu	0
12			10, th.-f	10, th.-f
13	w	w	10, f	10, f
14	0	0 : w	10	10 : r
15	m	m	0	0
16	v	v	10	10 : 0, h
17	w	w	10, ci.-cu, ci.-s, ci	7, ci.-cu, ci.-s, r : 10
18	s	s	0, f	0 : 7
19	0	w	10 : 8	10
20	w	w	10, f	10, f
21	w	w	10, cu, ci.-cu, th.-f	10, cu, ci.-cu, ci.-s
22	w	w : 0	0 : 10	10, glm : 7, ci, ci.-s
23	s, g cur	s, g cur	10, h.-r	10, oc.-r
24	s	s	10, r	9 : 0 : 10, r
25	s	s	10, cu, ci-cu, ci	7 : 10, ci.-cu, ci, r
26	s	w	10, sn, sl	10, sn, sl, r : 8, ci, n
27	s	s	10 : 0	0 : 8, ci.-cu, ci, lu.-cor
28	v	s	8, ci.-cu : 0	0 : 10, lu.-cor
29	s, sps,	s, sps	10, th.-r	7 : 10, lu.-cor
30	v	v	10	10

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·4 on the 3rd; and the lowest was 34°·1 on the 26th.

The mean ,, was 44°·2, being 3°·9 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·290, being 0in·032 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 3gr·5, being 0gr·6 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 98 (that of Saturation being represented by 100), being 10 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 548 grains, being 1 grain *greater* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 8·2.

WIND.

The proportions were of N. 10, S. 6, W. 3, and E. 11. The greatest pressure in the month was 3lbs·3 on the square foot on the 30th.

RAIN.

Fell on 8 days in the month, amounting to 1in·3, as measured in the simple cylinder gauge partly sunk below the ground; being 1in·0 *less* than the average fall of the preceding 17 years.

ELECTRICITY.—On November 11 and 12 the insulating lamp was out.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32 Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest Temperature shown by a Self-Registering Thermometer exposed in the Sun's Rays, and placed in vacuo, read at 9 P.M.	Lowest Temperature shown by a Self-Registering Thermometer exposed on the Grass, and placed in vacuo, read at 9 A.M. next morning	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 10 A.M. next morning. Highest.	In the Water of the Thames at Greenwich, by Self-Registering Thermometers, read at 10 A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 17 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Amount of Horizontal Movement of the Air in Miles.	Rain in Inches read at 9h P.M.
		in.	°	°													lbs.	lbs.	lbs.	miles	in.
Dec. 1	Perigee	29·785	52·8	35·8	47·3	43·4	55·5	28·3	43·8	42·5	1·9	7·8	0·0	+ 5·6	S	Calm	0·0	0·0	0·0	100	0·05
2	Last Quarter	29·913	56·4	43·2	50·8	48·5	58·5	38·8	43·6	42·3	2·3	5·6	0·0	+ 9·0	SW	S	1·0	0·0	0·0	195	0·00
3	..	29·637	55·3	48·5	52·4	47·2	55·4	43·0	42·8	42·5	5·2	6·8	4·0	+10·7	S	SW	4·0	0·0	0·5	265	0·05
4	..	29·910	55·5	39·7	46·7	42·3	59·0	38·0	45·3	44·0	4·4	7·8	0·2	+ 5·2	SW	SW	2·5	0·0	0·2	120	0·00
5	..	30·083	51·4	37·5	44·3	42·3	53·5	31·5	45·6	44·3	2·0	6·4	0·2	+ 2·9	SW	SW	0·0	0·0	0·0	125	0·00
6	..	30·258	55·3	39·7	47·4	47·3	59·0	31·0	45·3	44·0	2·1	3·4	0·0	+ 8·3	SW	SW	0·0	0·0	0·0	165	0·00
7	..	30·204	54·0	45·0	50·1	48·8	54·5	45·0	47·7	45·0	2·1	3·6	0·0	+10·2	SSW	SW ; WSW	2·5	0·0	1·0	145	0·00
8	Last Qr.	30·321	53·9	35·3	41·7	40·8	54·7	..	46·9	45·4	0·9	2·5	0·0	+ 1·0	Var.	WSW	0·0	0·0	0·0	65	0·00
9	In Equator	30·254	48·3	42·3	45·7	40·6	49·0	31·2	46·9	45·5	3·1	3·7	2·5	+ 3·2	SSW ; S	SW	0·0	0·0	0·0	100	0·00
10	..	30·260	51·0	42·7	46·8	44·0	54·2	41·7	46·5	45·5	2·8	4·8	0·0	+ 6·4	SSW	SSW	0·0	0·0	0·0	115	0·00
11	..	30·432	49·0	36·8	42·2	40·7	53·2	30·3	46·7	45·5	1·5	4·4	0·0	+ 2·0	SW	SW ; S by W	0·0	0·0	0·0	15	0·00
12	..	30·566	42·6	37·0	40·6	39·9	42·7	29·0	46·3	45·5	0·7	2·6	0·0	+ 0·6	Calm	Calm	0·0	0·0	0·0	0	0·00
13	..	30·450	43·5	39·7	41·4	38·9	44·0	38·0	46·1	45·0	2·5	3·7	0·0	+ 1·8	Calm	Calm	0·0	0·0	0·0	0	0·00
14	Apogee	30·191	43·2	38·5	40·8	37·2	44·8	34·0	45·8	44·5	3·6	4·1	3·0	+ 1·1	Calm	SW	0·0	0·0	0·0	155	0·00
15	..	30·002	51·4	41·3	46·9	44·8	54·4	37·6	45·5	44·5	2·1	4·8	0·3	+ 6·9	SSW	SW	2·0	0·0	0·1	215	0·00
16	New Moon	29·973	52·2	42·6	48·5	46·5	55·5	41·3	45·8	45·0	2·0	4·4	0·8	+ 8·2	SW	SW	2·5	0·0	0·1	120	0·00
17	..	30·023	57·0	48·2	52·5	49·2	57·5	41·0	45·8	45·0	3·3	5·0	2·2	+12·4	SW	SW	3·5	0·0	0·5	235	0·03
18	..	29·947	53·8	44·0	48·7	44·7	55·8	42·3	46·8	45·0	4·0	5·3	2·3	+ 8·8	SW	SW	3·0	0·0	0·3	165	0·02
19	..	29·889	49·2	35·0	40·1	38·0	49·2	30·0	47·1	45·0	2·1	4·0	0·0	+ 0·6	Calm	W ; SW	0·0	0·0	0·0	100	0·11
20	..	29·781	49·8	32·0	42·3	40·8	49·8	24·0	46·9	45·4	1·5	4·4	0·7	− 3·3	SW	W	3·5	0·0	0·3	230	0·10
21	..	29·912	51·8	41·7	48·7	46·7	52·2	34·5	46·8	45·5	2·0	4·4	1·9	+10·3	WSW	WSW	2·5	0·0	0·5	160	0·00
22	..	30·064	54·0	47·5	51·1	46·9	55·0	43·2	47·3	45·5	4·2	5·2	3·8	+13·2	SW	SW	3·3	0·0	0·6	270	0·00
23	In Equator	30·228	55·4	47·4	51·7	45·4	57·5	34·0	47·5	46·6	6·3	8·4	4·2	+14·3	SW	WSW	2·6	0·0	0·3	200	0·00
24	First Qr.	30·271	52·0	40·5	47·1	44·3	53·5	34·2	47·7	46·3	4·8	6·6	2·3	+12·1	Calm	SW	0·0	0·0	0·0	205	0·00
25	..	30·163	53·0	38·9	45·6	42·5	55·0	40·3	47·8	46·2	3·1	7·4	0·0	− 9·1	WSW	W	1·3	0·0	0·0	75	0·00
26	..	30·215	45·2	34·5	41·5	37·9	46·0	..	47·3	45·8	3·6	6·3	2·3	+ 4·1	W	Calm	0·0	0·0	0·0	0	0·00
27	..	30·280	43·8	36·1	40·1	35·9	45·8	32·0	47·3	45·8	4·2	6·2	2·3	+ 3·6	NNE	NW; W	0·0	0·0	0·0	5	0·00
28	..	30·344	40·5	31·0	36·4	35·1	40·6	27·8	47·1	45·4	1·3	3·5	0·0	− 0·6	W	WSW	0·0	0·0	0·0	5	0·00
29	Perigee	30·388	47·5	36·7	42·0	41·2	51·3	28·0	46·9	44·6	0·8	2·9	0·0	+ 4·7	SW	WSW	0·0	0·0	0·0	35	0·00
30	Last Qr.	30·442	43·6	31·9	37·5	37·5	44·2	31·9	46·3	44·0	0·4	2·2	0·0	+ 0·5	WSW	Calm	0·0	0·0	0·0	5	0·00
31	..	30·385	46·0	30·8	36·9	34·3	50·5	31·0	45·8	43·2	2·6	6·8	0·0	− 0·7	Calm	SE	0·0	0·0	0·0	50	0·00
Means	..	30·158	50·3	39·6	45·1	42·4	52·0	35·1	46·3	44·9	2·7	5·0	1·1	+ 5·8	...	...	..	..	..	Sum 3640	Sum 0·36

BAROMETER READINGS.

The first maximum in the month was 29·937 on the 2nd; the absolute minimum was 29·617 on the 3rd.
The second maximum was 30in·550 on the 8th; the third minimum was 30in·222 on the 9th.
The absolute maximum was 30in·574 on the 12th; the fourth minimum was 29in·954 on the 16th.
The fourth maximum was 30in·077 on the 17th; the fifth minimum was 29in·841 on the 18th.
The fifth maximum was 30in·026 on the 19th; the sixth minimum was 29in·754 on the 20th.
The sixth maximum was 30in·454 on the 30th.

The first minimum in the month was 29in·709 on the 1st.

The range in the month was 0in·957. The mean for the month was 30in·158, being 0in·342 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 57°·0 on the 17th; the lowest was 30°·8 on the 31st; and the range in the month was 26°·2.
The mean of all the highest daily readings was 52°·3, being 5°·2 *higher* than the average of the preceding 17 years.
The mean of all the lowest daily readings was 39°·6, being 4°·0 *higher* than the average of the preceding 17 years.
The mean daily range was 12°·7, being 1°·2 *higher* than the average of the preceding 17 years.
The mean for the month was 45°·1, being 4°·9 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Dec. 1	v	v	10, ci.-cu, ci.-s	10 : 10, m.-r
2	s	s	10, m.-r	10 : 8, lu.-ha, lu.-cor
3	m	m	10	8, ci.-cu, ci.-s : shs.-r, lu.-cor
4	s	s : o	o	o
5	s, sps, g cur	s, sps, g cur	o	o : f
6	s, sps, g cur	s, sps, g cur	10, m.-r : 8, ci.-cu, ci.-s	8 : 10, m.-r
7	s	s	10	10, m.-r
8	s	s	10, f	8, th.-f : 10
9	ss	ss	10, cu, ci.-cu	10
10	m	m	10	10 : o, h
11	ss	ss	o, h	o : 10
12	s, sps, g cur	ss, sps, g cur	10	10 : f
13	s	s	10, ci, f	10 : f
14	s, sps	s, sps	10, ci.-s	10, ci.-s
15	s	s : m	8	10
16	s	s	10	10 : o, l, r
17	w	w	10, cu, ci.-cu	10, shs.-r
18	s	s	8	o : 10, r
19	ss, sps, g cur	ss, sps, g cur	o, f	o : th.-f
20	s	s	10	10 : 8, r
21	s	s : w	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s
22	w	w	10, s, ci.-s : s	10, s
23	s	s	o	10
24	ss, sps	ss, sps	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu
25	m	m	7, s, ci.-s	7, s, ci.-s : o, th.-f
26	m	m : s	10, th.-f	10
27	w	s	10, cu, ci.-cu	10, cu, ci.-cu : lu.-cor
28	s	s	10, f	10, ci.-s, f
29	ss, sps, g cur	ss, sps, g cur	8, cu, ci.-cu, ci.-s : 10	10, f
30	s	s	10, th.-f	10, f
31	s, sps	s, sps	o, f	o : 8, s, ci.-s

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 51°·1 on the 2nd; and the lowest was 30°·2 on the 31st.

The mean ,, was 42°·4, being 5°·5 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·271, being 0in·045 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 3gr·1, being 0gr·5 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 90 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 552 grains, being *the same as* the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by o and a cloudy sky by 10, was 7·2.

WIND.

The proportions were of N. 1, S. 13, W. 16, and E. 1. The greatest pressure in the month was 4lbs·0 on the square foot on the 3rd.

RAIN.

Fell on 6 days in the month, amounting to 0in·4 as measured in the simple cylinder gauge partly sunk below the ground; being 1in·0 *less* than the average fall of the preceding 17 years.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32 Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Jan. 4. 12	29·309	39·1	38·8	38·4	·232	2·7	0·1	99	544	NNE	0·0	10	2
13	29·325	39·3	39·2	39·1	·238	2·8	0·1	99	545	NNE	0·0	10	2
14	29·353	37·8	37·5	37·3	·223	2·4	0·3	96	548	NNE	0·0	10	3
15	29·406	36·2	36·0	35·7	·209	2·5	0·1	98	550	NE	0·0	10	4
16	29·457	34·8	34·6	33·2	·187	2·2	0·2	93	547	NE	0·0	10	4
17	29·510	34·6	33·8	32·7	·186	2·2	0·2	92	553	NE	0·0	10	5
18	29·543	33·9	33·2	31·6	·178	2·1	0·2	92	555	NNE	0·0	10	5
19	29·605	33·0	33·0	33·0	·188	2·2	0·0	100	557	NNE	0·0	10	5
20	29·637	33·8	32·7	30·9	·173	2·0	0·3	88	556	NNE	0·0	10	5
21	29·698	33·7	32·3	29·6	·164	1·9	0·4	85	558	NNE	0·0	10	8
22	29·734	33·5	31·8	28·7	·158	1·9	0·4	83	560	NNE	3·0	10	0
23	29·752	33·8	31·7	28·3	·155	1·9	0·4	78	559	NNE	2·5	9	2
Jan. 5. 0	29·780	33·9	32·0	28·6	·157	1·8	0·5	80	559	NNE	2·5	9	3
1	29·791	33·9	32·1	28·9	·159	1·8	0·5	81	560	NNE	5·5	9	4
2	29·810	32·1	31·8	31·1	·174	2·1	0·1	96	562	NNE	4·0	6	4
3	29·831	31·8	31·6	29·7	·165	2·0	0·1	97	563	NNE	3·0	7	5
4	29·851	30·4	30·3	30·2	·168	1·9	0·1	95	565	NNE	4·0	3	5
5	29·870	30·2	28·4	23·0	·123	1·5	0·5	73	566	NNE	3·0	10	5
6	29·892	29·7	28·6	25·2	·136	1·7	0·3	83	567	NNE	2·4	9	3
7	29·895	29·7	28·5	24·7	·133	1·7	0·3	82	567	NNE	2·5	9	3
8	29·900	29·7	28·5	24·7	·133	1·7	0·3	82	567	NNE	2·5	10	3
9	29·904	29·7	29·0	26·8	·146	1·9	0·2	88	567	NNE	2·0	10	0
10	29·905	29·7	29·0	26·8	·146	1·9	0·2	88	567	NNE	2·0	7	0
11	29·904	29·5	28·8	26·6	·145	1·7	0·2	88	567	NNE	2·0	10	0
Jan. 11. 12	29·168	39·5	38·1	36·2	·214	2·5	0·3	89	542	NNW	0·0	8	0
13	29·165	37·4	37·1	36·5	·216	2·6	0·1	95	544	NW	0·0	7	0
14	29·165	36·5	36·0	35·3	·206	2·5	0·1	96	545	WNW	0·0	0	0
15	29·164	34·7	34·4	33·3	·190	2·2	0·2	93	547	WNW	0·0	0	0
16	29·157	33·9	33·7	32·0	·181	2·1	0·3	90	548	WNW	0·0	0	0
17	29·153	33·8	33·5	32·1	·182	2·0	0·2	92	548	WSW	0·0	0	1
18	29·145	33·2	33·0	32·6	·185	2·1	0·1	98	548	W	0·0	0	3
19	29·131	32·2	32·2	32·2	·182	2·1	0·0	100	549	WSW	0·0	0	3
20	29·125	32·6	32·2	31·0	·174	2·0	0·2	97	548	WSW	0·0	0	0
21	29·090	32·3	32·2	32·2	·182	2·0	0·1	99	548	SSW	0·0	0	0
22	29·092	35·0	34·9	34·7	·201	2·3	0·1	99	545	SSW	0·0	0	0
23	29·058	38·5	37·5	36·1	·213	2·4	0·3	91	540	SSW	0·0	7	0
Jan. 12. 0	29·029	41·6	39·9	37·8	·227	2·7	0·5	87	537	SW	0·0	6	0
1	29·001	42·8	40·4	37·5	·225	2·6	0·5	82	535	SSE	0·0	0	1
2	28·988	42·8	39·8	36·1	·213	2·6	0·6	78	535	SE	0·0	1	2
3	28·977	40·7	38·4	35·6	·208	2·4	0·6	88	536	SSE	0·0	4	2
4	28·971	38·5	37·0	34·9	·203	2·4	0·4	87	538	SSE	0·0	1	3
5	28·976	35·7	35·1	34·2	·197	2·3	0·2	95	541	E	0·0	0	0
6	28·984	35·1	34·7	34·2	·197	2·3	0·1	96	542	ESE	0·0	0	0
7	28·999	35·4	35·4	35·4	·207	2·4	0·0	100	543	ESE	0·0	5	0
8	29·004	34·6	34·6	34·6	·200	2·3	0·0	100	544	E	0·0	6	0
9	29·006	33·7	33·7	33·7	·193	2·2	0·0	100	545	E	0·0	10	0
10	29·022	33·7	33·7	33·7	·193	2·2	0·0	100	545	E	0·0	10	0
11	28·999	32·2	32·2	32·2	·182	2·1	0·0	100	547	ENE	0·0	10	0
Jan. 18. 12	30·126	46·5	45·0	43·4	·281	3·2	0·4	90	552	WSW	0·0	10	0
13	30·111	46·5	45·5	44·5	·294	3·3	0·3	94	550	WSW	0·0	10	0
14	30·101	46·5	45·7	44·9	·298	3·4	0·3	94	550	WSW	0·0	10	0
15	30·088	46·7	46·0	45·2	·302	3·5	0·2	95	550	WSW	0·0	10	0
16	30·084	47·0	46·2	45·3	·303	3·5	0·2	95	550	WSW	0·0	10	0
17	30·080	47·0	46·5	45·9	·309	3·5	0·2	96	550	WSW	0·0	10	10
18	30·083	47·0	46·5	45·9	·309	3·5	0·2	96	550	WSW	0·0	10	10
19	30·081	47·0	47·0	47·0	·323	3·7	0·0	100	549	WSW	0·0	10	10

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°				
Jan. 4. 12	..	..	..	..	Overcast.
13	..	..	..	..	Overcast.
14	..	..	..	..	Overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Overcast.
17	..	..	..	..	Overcast.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..	..	Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Generally overcast.
Jan. 5. 0	..	..	..	..	Generally overcast.
1	..	..	..	..	Generally overcast.
2	..	..	..	..	Partially cloudy; snow falling.
3	..	..	..	..	Partially cloudy; snow falling.
4	..	..	..	..	Dark clouds near the horizon; snow falling.
5	..	..	..	..	Overcast.
6	..	..	..	..	Generally overcast.
7	..	..	..	..	Generally overcast.
8	..	..	..	..	Overcast.
9	..	..	..	..	Cirrostratus and scud.
10	..	..	..	..	Cirrostratus and scud; clear in the W.
11	..	..	..	..	Overcast.
Jan. 11. 12	..	..	..	..	Light clouds in all directions; lunar halo and coronæ.
13	..	..	..	..	Light clouds in all directions; lunar halo and coronæ.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cloudless.
21	..	..	..	..	Cloudless.
22	..	..	..	..	Cloudless.
23	..	..	..	..	Partially cloudy.
Jan. 12. 0	..	..	..	..	Partially cloudy.
1	..	..	..	..	Cloudless.
2	..	..	..	..	A few light clouds in the S.W.; otherwise cloudless.
3	20	20	..	..	Light clouds near the horizon.
4	70	40	..	..	Light clouds near the horizon.
5	Out of range	40	2 B	..	Cloudless.
6	80	40	..	..	Cloudless.
7	80	40	..	..	Partially cloudy.
8	Out of range	40	..	..	Partially cloudy.
9	0	0	..	..	Overcast; fog and haze.
10	0	0	..	..	Overcast; fog and haze.
11	0	0	..	..	Overcast; fog and haze.
Jan. 18. 12	10	20	..	..	Overcast.
13	20	30	..	..	Overcast.
14	30	40	..	..	Overcast.
15	20	30	..	..	Overcast.
16	20	30	..	..	Overcast.
17	10	20	..	..	Overcast.
18	10	20	..	..	Overcast; thin rain falling.
19	10	20	..	..	Overcast; thin rain falling.

January 4 and 11. The insulating lamp on the top of the Electrometer pole was not burning.

1857. Month. Day. and Hour.		Readings of			Hygrometrical Deductions.						Wind		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
a	b	in.	c	c	c		gr.	gr.		gr.		lbs.		
Jan. 18.	20	30·083	47·0	46·8	46·6	·318	3·7	0·1	99	549	WSW	0·0	10	10
	21	30·093	45·9	45·6	45·3	·303	3·5	0·1	99	551	N	0·0	10	0
	22	30·109	45·8	44·4	42·8	·275	3·1	0·4	89	551	N	0·0	10	0
	23	30·140	46·1	44·3	42·2	·269	3·2	0·5	88	551	NNE	0·0	10	0
Jan. 19.	0	30·151	46·5	44·4	42·1	·268	3·1	0·5	85	550	NNE	0·0	10	0
	1	30·146	46·4	44·2	41·7	·264	3·1	0·6	84	552	NNE	0·0	10	0
	2	30·153	46·4	44·2	41·7	·264	3·1	0·6	84	551	NNE	0·0	5	0
	3	30·152	45·5	43·0	40·2	·249	2·9	0·6	82	553	NNE	0·0	5	0
	4	30·169	43·8	41·7	39·2	·239	2·8	0·6	84	555	NNE	0·0	0	0
	5	30·176	42·4	40·6	38·4	·232	2·7	0·5	86	557	NNE	0·0	0	0
	6	30·180	41·4	39·7	37·5	·225	2·6	0·4	87	558	NNW	0·0	0	0
	7	30·205	38·4	37·7	36·8	·218	2·6	0·1	94	560	W	0·0	0	0
	8	30·176	38·1	37·4	36·4	·215	2·5	0·2	94	560	W	0·0	0	0
	9	30·154	36·9	36·7	36·5	·216	2·6	0·2	98	563	W	0·0	0	0
	10	30·139	35·8	35·7	35·7	·209	2·5	0·1	99	563	WSW	0·0	0	0
	11	30·110	34·7	34·7	34·7	·201	2·3	0·0	100	564	WSW	0·0	0	0
Jan. 25.	12	29·485	33·4	33·2	32·9	·187	2·2	0·1	99	554	NE	0·0	0	10
	13	29·491	32·0	31·8	31·3	·176	2·1	0·0	97	556	NNE	0·0	0	10
	14	29·486	31·5	31·5	31·5	·177	2·1	0·0	100	557	NNE	0·0	0	8
	15	29·493	31·4	31·3	31·2	·175	2·1	0·1	99	557	NNE	0·0	0	4
	16	29·492	31·7	31·6	31·5	·177	2·3	0·1	99	556	NNE	0·0	6	1
	17	29·492	32·7	32·4	31·9	·180	2·1	0·1	99	555	NNE	0·0	10	1
	18	29·495	33·0	32·6	31·8	·179	2·1	0·1	95	555	NNE	0·0	10	0
	19	29·489	33·2	32·8	32·0	·181	2·2	0·1	95	555	NNE	0·0	10	0
	20	29·502	33·4	33·2	32·9	·187	2·1	0·1	99	555	NNE	0·0	10	0
	21	29·503	33·3	33·2	33·1	·188	2·1	0·1	99	555	NNE	0·0	10	0
	22	29·509	33·5	33·4	33·3	·190	2·1	0·1	99	555	NNE	0·0	10	0
	23	29·528	34·5	34·1	33·3	·190	2·2	0·1	95	554	ENE	0·0	10	0
Jan. 26.	0	29·537	34·4	34·3	34·2	·197	2·2	0·1	99	554	ENE	1·5	10	0
	1	29·541	34·7	34·3	33·7	·193	2·2	0·2	96	554	ENE	1·5	10	0
	2	29·545	35·1	34·4	33·3	·190	2·2	0·2	93	554	ENE	2·5	10	0
	3	29·557	34·6	34·0	33·1	·188	2·2	0·2	94	554	ENE	2·5	10	0
	4	29·580	34·1	34·0	33·8	·194	2·3	0·1	99	555	ENE	2·5	10	0
	5	29·595	34·0	33·0	31·2	·175	2·1	0·2	89	556	ENE	2·2	10	0
	6	29·613	33·2	32·5	30·7	·172	2·0	0·1	92	557	ENE	2·5	10	0
	7	29·622	32·7	32·5	32·1	·182	2·0	0·1	99	558	ENE	0·0	10	0
	8	29·634	32·7	32·4	32·0	·181	2·0	0·1	99	558	ENE	0·0	10	0
	9	29·656	32·7	32·2	31·3	·176	2·0	0·2	95	558	ENE	0·0	10	0
	10	29·674	32.7	32·0	30·6	·171	2·0	0·2	92	558	ENE	0·0	10	0
	11	29·679	32·7	32·0	30·6	·171	2·0	0·2	92	559	ENE	0·0	10	0
Feb. 1.	12	29·698	25·2	25·2	25·2	·136	1·6	0·0	100	568	SE	0·0	9	0
	13	29·681	24·1	24·1	24·1	·130	1·5	0·0	100	569	SE	0·0	10	0
	14	29·657	25·2	25·2	25·2	·136	1·6	0·0	100	568	SE	0·0	10	0
	15	29·623	25·2	25·2	25·2	·136	1·6	0·0	100	568	SE	0·0	0	0
	16	29·592	24·5	24·5	24·5	·132	1·6	0·0	100	567	SSE	0·0	0	0
	17	29·561	24·6	24·6	24·6	·133	1·6	0·0	100	566	SSE	0·0	0	0
	18	29·545	25·5	25·5	25·5	·138	1·7	0·0	100	565	SSE	0·0	0	0
	19	29·538	27·1	27·1	27·1	·148	1·7	0·0	100	563	SSE	0·0	4	2
	20	29·517	28·0	28·0	28·0	·153	1·8	0·0	100	561	SSE	0·0	10	3
	21	29·508	30·8	30·3	29·2	·161	2·0	0·4	95	558	SE	0·0	10	4
	22	29·488	31·7	31·2	30·1	·168	2·0	0·2	95	556	SSE	0·0	10	0
	23	29·475	35·9	32·2	26·6	·145	1·8	0·7	69	551	SSE	0·0	10	0
Feb. 2.	0	29·454	36·6	34·1	30·5	·169	1·9	0·6	79	550	SSE	0·0	10	2
	1	29·423	35·9	33·3	29·4	·162	1·9	0·6	77	550	SSE	0·0	10	2

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Jan. 18. 20	10	10	..	..	Overcast; thin rain falling.
21	0	0	..	..	Overcast; thin rain falling; at 20h. 20m a great darkness came over like night.
22	18	25	..	..	Overcast; thin rain falling.
23	10	15	..	..	Overcast; thin rain falling.
Jan. 19. 0	0	0	..	..	Overcast; thin rain falling.
1	80	40	..	..	Overcast; thin rain falling.
2	Out of range	40	..	..	Partially cloudy.
3	Out of range	40	..	..	Partially cloudy.
4	Out of range	40	..	..	Cloudless.
5	Out of range	40	..	..	Cloudless; fog and haze.
6	Out of range	40	..	..	Cloudless; fog and haze.
7	Out of range	40	..	..	Cloudless; fog and haze.
8	Out of range	40	4 B	3 in 1' at 0·03	Cloudless; fog and haze.
9	Out of range	40	2 B	..	Cloudless; fog and haze.
10	Out of range	40	2 B	..	Cloudless; fog and haze.
11	Out of range	40	2 B	..	Cloudless; fog and haze.
				..	
Jan. 25. 12	15	20	..	..	Cloudless; fog.
13	10	10	..	..	Cloudless; fog.
14	10	10	..	..	Cloudless; fog.
15	12	15	..	..	Cloudless; fog.
16	20	20	..	..	Dark clouds cover rather more than half the sky.
17	12	15	..	..	Overcast; fog.
18	20	20	..	..	Overcast; fog.
19	40	40	..	..	Overcast; thin rain falling.
20	Out of range	40	..	..	Overcast; snow falling.
21	80	40	..	..	Overcast; snow falling.
22	Out of range	40	..	..	Overcast; snow falling.
23	0	0	..	..	Overcast; snow falling.
Jan. 26. 0	5	5	..	..	Overcast; snow falling.
1	8	10	..	..	Overcast; snow falling.
2	10	10—	..	..	Overcast; snow falling.
3	30	30	..	..	Overcast; snow and rain falling.
4	20	30	..	..	Overcast; snow and rain falling.
5	Out of range	40	..	..	Overcast; snow and rain falling.
6	30	40	..	..	Overcast; snow and rain falling.
7	Out of range	40	2 B	..	Overcast; snow and rain falling.
8	Out of range	40	2 B	..	Overcast; snow and rain falling.
9	60	40	..	..	Overcast; snow and rain falling.
10	60	40	..	..	Overcast; snow and rain falling.
11	40	30	..	..	Overcast; the snow ceased shortly before this observation.
Feb. 1. 12	Out of range	40	3 B	..	Generally overcast.
13	Out of range	40	2 B	..	Overcast.
14	Out of range	40	2 B	..	Overcast.
15	Out of range	40	2 B	..	Cloudless.
16	Out of range	40	2 B	..	Cloudless.
17	Out of range	40	3 B	..	Cloudless.
18	Out of range	40	3 B	..	Cloudless.
19	Out of range	40	2 B	..	Partially cloudy.
20	80	40	..	..	Overcast.
21	Out of range	40	2 B	1 in 1' at 0·04	Overcast; snow occasionally falling.
22	50	40	..	..	Overcast.
23	35	30	..	..	Overcast.
Feb. 2. 0	40	40	..	..	Overcast.
1	10	10	..	..	Overcast.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
	in.	°	°	°		gr.	gr.		gr.		lbs.		
Feb. 2. 2	29·409	35·1	32·8	29·2	·161	1·8	0·7	78	551	SSE	0·0	10	4
3	29·404	34·6	32·3	28·5	·157	1·8	0·5	78	551	SSE	0·0	10	6
4	29·395	33·1	31·9	29·6	·164	1·9	0·3	86	553	SSE	0·0	10	7
5	29·398	32·4	31·5	29·7	·165	1·9	0·2	89	554	SSE	0·0	10	8
6	29·402	32·0	31·1	29·0	·160	1·9	0·2	88	555	SSE	0·0	10	8
7	29·405	31·8	31·1	29·7	·165	1·9	0·2	92	556	SSE	0·0	10	10
8	29·409	31·2	31·0	30·6	·171	2·1	0·1	98	556	SSE	0·0	10	10
9	29·407	31·2	30·5	28·2	·154	1·9	0·2	90	556	SSE	0·0	8	10
10	29·406	30·8	30·3	29·1	·160	1·9	0·3	94	556	SE	0·0	10	0
11	29·408	30·2	30·0	29·5	·163	2·0	0·1	97	557	SE	0·0	10	0
Feb. 8. 12	29·550	39·7	39·0	38·1	·230	2·6	0·1	94	548	SSW	0·0	10	9
13	29·545	39·7	38·7	37·4	·224	2·6	0·2	92	546	S	0·0	9	10
14	29·541	39·3	38·0	36·3	·214	2·5	0·4	90	548	S	0·0	6	10
15	29·532	38·7	37·8	36·6	·217	2·5	0·2	92	549	S	0·0	7	10
16	29·532	38·2	37·2	35·9	·211	2·5	0·2	91	550	SSE	0·0	8	10
17	29·519	38·3	37·2	35·7	·209	2·5	0·2	91	550	SSE	0·0	2	10
18	29·499	38·1	36·9	35·2	·205	2·4	0·3	91	549	SSE	0·0	2	10
19	29·500	37·6	35·0	31·4	·176	2·0	0·4	79	550	SSE	0·0	1	10
20	29·499	37·1	35·5	33·3	·190	2·0	0·4	86	550	SSE	0·0	1	10
21	29·499	39·7	37·0	33·5	·192	2·2	0·4	78	548	SSE	0·0	6	10
22	29·489	42·8	38·8	33·9	·195	2·3	0·9	72	544	SSE	0·0	5	0
23	29·479	45·3	40·2	34·3	·198	2·3	1·1	65	541	S	1·5	5	0
Feb. 9. 0	29·458	46·6	41·5	35·7	·209	2·4	1·1	67	539	S	3·0	7	1
1	29·432	46·2	41·0	35·1	·204	2·4	1·2	66	539	S	3·0	4	2
2	29·423	47·3	41·6	35·3	·206	2·2	1·4	63	538	SSW	3·0	8	2
3	29·411	46·3	40·8	34·6	·200	2·4	1·2	65	539	SSW	1·5	7	2
4	29·404	44·9	40·3	33·0	·188	2·4	1·0	68	540	SSW	1·5	2	2
5	29·393	43·0	39·3	34·8	·202	2·4	1·0	73	542	S	1·5	3	2
6	29·380	42·7	39·2	34·9	·203	2·3	0·8	74	542	S	2·0	2	3
7	29·375	43·3	39·9	35·9	·211	2·5	0·7	75	541	S	3·0	10	3
8	29·374	44·5	40·9	36·8	·218	2·6	0·8	75	540	S	1·0	10	5
9	29·382	45·8	41·6	36·8	·218	2·5	1·0	72	538	SSW	1·5	10	8
10	29·374	43·4	42·0	40·3	·250	2·9	0·4	89	541	SSW	1·5	10	10
11	29·374	43·4	42·0	40·3	·250	2·9	0·4	89	541	SSW	2·0	10	10
Feb. 15. 12	29·997	29·8	29·8	29·8	·166	2·1	0·0	100	570	SE	0·0	0	2
13	29·998	29·7	29·7	29·7	·165	2·1	0·0	100	570	E	0·0	0	2
14	29·998	28·4	28·4	28·4	·156	1·9	0·0	100	570	ESE	0·0	0	1
15	29·995	28·7	28·7	28·7	·158	1·7	0·0	100	569	ENE	0·0	10	1
16	29·982	30·4	30·4	30·4	·170	2·1	0·0	100	567	ENE	0·0	10	0
17	29·980	30·2	30·2	30·2	·168	2·1	0·0	100	567	ENE	0·0	5	0
18	29·986	31·9	31·4	30·4	·170	2·1	0·4	93	566	SE	0·0	4	0
19	29·992	33·7	32·3	29·8	·166	2·0	0·3	86	564	SSE	0·0	1	0
20	29·991	35·1	35·1	35·1	·204	2·4	0·0	100	562	SSE	0·0	3	0
21	29·994	38·3	38·0	37·6	·225	2·7	0·1	98	558	SSE	0·0	2	0
22	29·988	43·3	41·8	40·1	·248	2·9	0·4	88	552	SSE	0·0	2	0
23	29·984	46·3	44·4	42·3	·270	3·1	0·5	87	549	ENE	0·0	0	0
Feb. 16. 0	29·973	51·2	46·6	41·8	·265	3·0	1·3	72	543	ESE	0·0	0	0
1	29·958	55·0	48·4	42·0	·267	3·0	1·9	62	539	SSW	0·0	0	0
2	29·938	54·5	47·5	40·6	·253	2·9	1·9	60	539	SSE	0·0	0	0
3	29·924	54·9	48·3	42·0	·267	3·0	1·8	62	538	S	0·0	0	0
4	29·928	52·1	46·0	39·8	·245	2·8	1·6	64	541	SSW	0·0	0	0
5	29·936	47·5	43·5	38·9	·237	2·8	1·0	74	547	SSE	0·0	0	0
6	29·935	43·5	41·0	38·0	·229	2·6	0·4	80	552	SSE	0·0	2	0
7	29·938	42·4	39·7	36·4	·215	2·5	0·7	80	553	SSE	0·0	0	0
8	29·942	41·6	38·8	35·3	·206	2·4	0·6	78	554	SE	0·0	0	0
9	29·950	38·9	37·0	34·4	·199	2·3	0·1	97	557	SE	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Feb. 2. 2	20	20	..	..	Overcast.
3	20	20	..	..	Overcast.
4	25	20	..	..	Overcast.
5	60	40	..	..	Overcast.
6	Out of range	40	..	..	Overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	50	40	..	..	Partially cloudy.
10	30	40	..	..	Overcast.
11	30	40	..	..	Overcast.
Feb. 8. 12	0	0	..	..	Overcast.
13	0	0	..	..	Generally overcast.
14	0	0	..	..	Partially cloudy.
15	0	0	..	..	Partially cloudy ; lunar halo.
16	0	0	..	..	Partially cloudy ; lunar halo.
17	0	0	..	..	Partially cloudy ; lunar halo.
18	0	0	..	..	Partially cloudy ; lunar halo.
19	0	0	..	..	Generally cloudless.
20	0	0	..	..	Partially cloudy.
21	0	0	..	..	Partially cloudy.
22	0	0	..	..	Partially cloudy.
23	5	5	..	..	Partially cloudy.
Feb. 9. 0	5	5	..	..	Partially cloudy.
1	5	5	..	..	Partially cloudy.
2	5	5	..	..	Partially cloudy.
3	0	0	..	..	Partially cloudy.
4	5	5	..	..	Partially cloudy.
5	0	0	..	..	Partially cloudy.
6	5	5	..	..	Stratus near the horizon ; otherwise cloudless.
7	0	0	..	..	Overcast.
8	10	5	..	..	Overcast.
9	10	10	..	..	Overcast ; rain falling.
10	30	20—	..	..	Overcast ; rain falling.
11	30	20—	..	..	Overcast ; rain falling.
Feb. 15. 12	20	20	..	..	Cloudless ; fog.
13	30	30	..	..	Cloudless ; fog.
14	30	30	..	..	Cloudless ; fog.
15	40	40	..	..	Overcast ; fog.
16	10	10	..	..	Overcast ; fog.
17	50	40	..	..	Partially cloudy.
18	20	20	..	..	Partially cloudy.
19	10	10	..	..	Generally cloudless.
20	10	10	..	..	Light clouds all over the sky.
21	30	30	..	..	Cirrus in several directions.
22	40	40	..	..	Cirrus in several directions.
23	40	40	..	..	Cloudless.
Feb. 16. 0	40	40	..	..	Cloudless.
1	5	10	..	..	Cloudless.
2	10	10	..	..	Cloudless.
3	5	10	..	..	Cloudless.
4	20	20	..	..	Cloudless.
5	30	30	..	..	Cloudless.
6	Out of range	40	..	..	Generally cloudless ; stratus in the W. and N.
7	Out of range	40	..	..	Cloudless.
8	Out of range	40	..	..	Cloudless.
9	Out of range	40	..	3 in 1″ at 0·02	Cloudless.

1857. Month, Day, and Hour.	Readings of Barometer corrected to 32° Fahr.	Readings of Dry Thermometer.	Readings of Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0—10.	Ozone. 0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Feb. 16. 10	29·939	41·7	39·5	36·8	·218	2·7	0·5	84	553	SSW	0·0	0	0
11	29·938	39·6	38·5	37·1	·221	2·6	0·3	91	556	SSW	0·0	0	0
Feb. 22. 12	30·098	38·1	37·0	35·5	·208	2·4	0·3	90	561	SSW	0·0	0	1
13	30·106	37·8	37·1	36·1	·213	2·5	0·2	94	561	SSW	0·0	0	1
14	30·100	36·9	36·5	36·0	·212	2·6	0·2	96	562	SSW	0·0	0	2
15	30·093	37·4	37·0	36·5	·216	2·6	0·1	96	560	SSW	0·0	0	3
16	30·096	38·2	37·6	36·8	·218	2·6	0·2	98	560	SSW	0·0	0	4
17	30·115	36·1	36·0	35·9	·211	2·5	0·0	100	563	ENE	0·0	10	0
18	30·117	35·9	35·7	35·5	·208	2·5	0·0	100	563	SW	0·0	10	0
19	30·133	37·4	37·0	36·5	·216	2·6	0·1	96	561	SW	0·0	10	0
20	30·145	36·9	36·7	36·6	·217	2·6	0·1	99	563	ENE	0·0	10	0
21	30·152	40·1	39·3	38·3	·231	2·7	0·2	93	557	NNE	0·0	10	0
22	30·152	42·7	41·5	40·1	·248	2·9	0·3	90	554	NNE	0·0	5	0
23	30·158	50·3	46·7	42·9	·276	3·2	0·8	76	546	NNE	0·0	3	0
Feb. 23. 0	30·155	52·9	48·0	43·1	·278	3·2	0·9	69	545	ENE	0·0	5	0
1	30·148	51·4	48·0	44·6	·295	3·4	0·7	78	546	ENE	0·0	7	0
2	30·143	53·9	48·6	43·4	·281	3·2	1·0	68	543	NE	0·0	7	0
3	30·143	54·9	48·3	42·0	·267	3·0	1·8	62	541	ENE	0·0	7	0
4	30·132	51·4	47·0	42·4	·271	3·1	1·2	72	546	E	0·0	3	0
5	30·139	47·4	44·7	41·7	·264	3·1	0·7	82	550	SE	0·0	2	0
6	30·144	44·0	42·4	40·5	·252	2·9	0·4	87	552	SE	0·0	0	0
7	30·154	41·0	40·2	39·2	·239	2·8	0·2	94	558	SE	0·0	0	0
8	30·157	39·0	38·0	36·7	·218	2·5	0·3	92	560	SSE	0·0	0	0
9	30·174	38·1	37·6	36·9	·219	2·6	0·1	96	562	SSE	0.0	0	0
10	30·180	35·5	35·5	35·5	·208	2·5	0·0	100	563	SSE	0·0	0	0
11	30·177	34·6	34·6	34·6	·200	2·3	0·0	100	564	ESE	0·0	0	0
Mar. 1. 12	30·381	43·7	43·2	42·6	·273	3·2	0·2	96	559	NE	0·0	10	6
13	30·371	44·0	43·6	43·1	·278	3·2	0·2	97	558	ENE	0·0	10	6
14	30·365	44·1	43·7	43·2	·279	3·2	0·2	97	558	ENE	0·0	10	7
15	30·355	43·7	43·3	42·8	·275	3·2	0·2	97	558	ENE	0·0	10	7
16	30·349	43·0	42·7	42·3	·270	3·1	0·1	98	557	ENE	0·0	10	7
17	30·342	44·0	42·9	41·5	·262	3·0	0·3	91	558	NE	0·0	10	7
18	30·342	43·3	42·8	42·1	·268	3·1	0·2	96	558	NE	0·0	10	7
19	30·356	43·1	43·1	43·1	·278	3·2	0·0	100	554	ENE	0·0	10	7
20	30·368	43·0	43·0	43·0	·277	3·2	0·0	100	559	ENE	0·0	10	7
21	30·371	43·3	43·3	43·3	·280	3·3	0·0	100	559	ENE	0·0	10	7
22	30·376	43·6	43·6	43·6	·284	3·4	0·0	100	559	ESE	0·0	10	0
23	30·376	45·8	45·3	44·9	·298	3·4	0·1	96	557	ESE	0·0	10	1
Mar. 2. 0	30·377	46·7	45·2	43·5	·283	3·3	0·4	91	555	ESE	0·0	10	3
1	30·358	48·8	45·3	41·6	·263	3·0	0·9	77	554	ESE	0·0	10	3
2	30·347	48·6	44·9	40·9	·256	2·9	1·0	74	554	ESE	0·0	10	4
3	30·340	47·2	43·3	38·9	·237	2·7	1·0	74	555	ESE	0·0	10	4
4	30·337	46·0	42·0	37·4	·224	2·6	1·0	73	556	ESE	0·0	10	4
5	30·340	45·1	41·2	36·7	·218	2·5	0·9	73	557	ESE	0·0	10	4
6	30·338	43·5	40·4	36·8	·218	2·4	0·7	77	559	ESE	0·0	10	4
7	30·351	43·2	40·2	37·3	·223	2·5	0·7	78	559	ESE	0·0	10	4
8	30·357	42·7	40·3	37·4	·224	2·6	0·6	88	560	ENE	0.0	10	4
9	30·356	42·5	40·2	37·4	·224	2·6	0·6	83	560	E	0·0	10	4
10	30·353	42·5	40·3	37·6	·225	2·7	0·5	85	560	E	0·0	10	0
11	30·349	42·4	40·6	38·3	·231	2·7	0·5	87	560	E	0·0	10	0
Mar. 8. 12	29·416	31·7	30·8	28·8	·158	1·9	0·2	88	555	WNW	0·0	0	0
13	29·421	30·8	30·6	30.2	·168	2·1	0·1	99	556	WNW	0·0	3	0
14	29·440	30·6	30·4	30·0	·167	2·1	0·1	98	557	WNW	0·0	4	0
15	29·448	31·5	31·0	29·9	·166	2·1	0·1	94	556	WNW	0·0	8	0
16	29·469	32·7	32·0	30·6	·171	2·0	0·2	92	555	NW	0·0	9	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Records' Spark-micrometer, No. of Sparks, &c.	Clouds and Weather.
d h					
Feb. 16. 10	Out of range	40	..	2 in 1" at 0"·2	Cloudless.
11	Out of range	40	..	3 in 1" at 0"·2	Cloudless.
Feb. 22. 12	10	10	..	..	Cloudless.
13	20	20	..	..	Cloudless.
14	12	10	..	..	Cloudless.
15	8	10	..	..	Cloudless.
16	20	20	..	..	Cloudless.
17	Out of range	40	..	..	Overcast.
18	Out of range	40	..	..	Overcast.
19	Out of range	40	..	..	Overcast.
20	Out of range	40	1 B	1 in 1" at 0"·3	Overcast.
21	Out of range	40	..	volley at 0"·04	Overcast.
22	Out of range	40	..	..	Partially cloudy.
23	Out of range	40	..	..	Partially cloudy.
Feb. 23. 0	Out of range	40	..	..	Partially cloudy.
1	Out of range	40	..	..	Partially cloudy.
2	Out of range	40	..	..	Partially cloudy.
3	70	40	..	..	Light clouds in many directions.
4	80	40	..	..	Light clouds in many directions.
5	75	40	..	..	Thin stratus in the S.; otherwise cloudless.
6	80	40	..	..	Cloudless; fog.
7	80	40	..	..	Cloudless; fog.
8	Out of range	40	..	..	Cloudless; fog.
9	Out of range	40	..	..	Cloudless; fog.
10	Out of range	40	..	2 in 1" at 0"·2	Cloudless.
11	Out of range	40	..	3 in 1" at 0"·3	Cloudless.
Mar. 1. 12	65	40	..	..	Overcast.
13	70	40	..	..	Overcast.
14	12	15	..	..	Overcast.
15	8	12	..	..	Overcast.
16	20	25	..	..	Overcast.
17	80	40	..	..	Overcast.
18	80	40	..	..	Overcast.
19	80	40	..	..	Overcast; thick fog.
20	Out of range	40	..	..	Overcast; thick fog.
21	20	20	..	..	Overcast; thick fog.
22	40	40	..	..	Overcast; thick fog.
23	Out of range	40	..	..	Overcast.
Mar. 2. 0	Out of range	40	..	..	Overcast.
1	Out of range	40	..	..	Overcast.
2	70	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	80	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast.
6	60	40	..	..	Overcast.
7	80	40	..	..	Overcast.
8	60	40	..	..	Overcast
9	Out of range	40	..	..	Overcast.
10	70	40	..	..	Overcast.
11	Out of range	40	..	..	Overcast.
Mar. 8. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Partially cloudy.
14	..	..	..	..	Partially cloudy.
15	..	..	..	..	Generally cloudy.
16	..	..	..	..	Generally overcast; high wind.

March 8. The insulating lamp at the top of the Electrometer pole was not burning.

1857. Month, Day, and Hour.		Readings of Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Pressure.	Clouds. 0–10.	Ozone. 0–10.
d	h	in.					gr.	gr.		gr.		lbs.		
Mar. 8.	17	29·496	32·7	32·0	30·6	·171	2·0	0·2	93	555	NNW	1·5	8	0
	18	29·521	32·8	32·6	32·5	·184	2·1	0·1	99	556	NNW	1·5	4	0
	19	29·553	34·2	33·0	32·9	·175	2·1	0·2	87	554	NNW	3·2	10	0
	20	29·580	34·5	34·0	33·2	·189	2·2	0·1	95	555	NNW	2·0	8	0
	21	29·625	37·2	35·5	33·2	·189	2·2	0·4	86	553	N	3·5	7	0
	22	29·657	37·9	35·5	32·2	·182	2·1	0·5	81	553	NNE	4·5	9	0
	23	29·686	39·5	36·6	32·8	·186	2·2	0·7	77	551	NNE	4·5	4	0
Mar. 9.	0	29·703	40·7	35·5	28·8	·158	1·8	1·1	63	550	NNE	2·0	5	0
	1	29·712	43·8	37·3	29·6	·164	1·9	1·4	57	547	NNE	0·0	10	0
	2	29·734	40·3	36·8	32·3	·183	2·2	1·1	72	551	NNE	0·0	5	0
	3	29·755	34·9	34·2	33·1	·188	2·2	0·2	93	558	NNE	0·0	3	0
	4	29·772	37·4	35·1	31·9	·180	2·1	0·6	84	555	NNE	0·0	8	0
	5	29·817	36·4	33·4	29·0	·160	1·9	0·7	75	557	NNE	0·0	10	0
	6	29·843	33·0	32·1	30·3	·169	2·0	0·2	90	563	NNE	0·0	0	0
	7	29·844	32·5	31·8	30·4	·170	2·0	0·1	92	562	NNE	0·0	8	0
	8	29·858	32·5	32·4	32·3	·183	2·1	0·1	96	562	NNE	0·0	5	0
	9	29·863	32·7	31·4	28·7	·158	1·9	0·3	85	563	NNE	0·0	10	0
	10	29·880	31·2	30·5	28·8	·158	1·9	0·2	89	564	NNE	0·0	4	0
	11	29·882	30·7	30·0	28·1	·154	1·9	0·2	90	565	NNE	0·0	3	0
Mar. 15.	12	29·720	38·0	36·2	33·8	·194	2·2	0·5	85	554	WSW	2·5	0	1
	13	29·738	38·4	36·7	34·5	·198	2·3	0·5	87	554	WSW	3·0	0	1
	14	29·754	37·4	36·1	34·5	·199	2·3	0·4	89	555	WSW	0·0	0	1
	15	29·764	37·6	36·3	34·5	·199	2·3	0·3	89	554	WSW	0·0	0	1
	16	29·781	37·6	36·4	34·8	·202	2·3	0·3	90	555	WSW	0·0	0	1
	17	29·796	36·8	35·8	34·3	·199	2·3	0·2	92	556	WSW	0·0	0	2
	18	29·814	36·4	35·6	35·1	·204	2·4	0·2	93	557	WSW	0·0	0	2
	19	29·834	38·1	36·2	33·7	·193	2·2	0·5	84	556	WSW	0·0	0	2
	20	29·848	40·9	39·2	37·1	·221	2·6	0·4	87	553	WSW	0·0	1	2
	21	29·849	46·0	42·6	38·7	·235	2·7	0·9	75	547	WSW	0·0	0	2
	22	29·866	47·3	43·3	38·8	·236	2·8	1·0	73	546	S	2·0	5	0
	23	29·869	49·7	44·8	39·6	·243	2·8	1·2	69	543	S	2·0	7	0
Mar. 16.	0	29·858	51·1	44·7	38·1	·230	2·5	1·9	62	542	S	2·0	3	0
	1	29·849	54·5	46·5	41·3	·260	3·0	1·3	69	541	SSW	2·0	8	0
	2	29·846	53·9	46·8	39·9	·246	2·8	1·9	59	538	SSW	1·5	5	0
	3	29·845	51·0	46·9	42·6	·273	3·1	1·1	73	541	SSW	1·0	6	0
	4	29·855	51·5	45·8	39·3	·240	2·8	1·5	63	541	SSE	0·4	8	0
	5	29·877	49·2	44·5	38·9	·237	2·8	1·2	69	544	SSE	0·0	7	0
	6	29·878	46·4	43·0	39·2	·239	2·9	0·7	82	547	SSE	0·0	3	0
	7	29·885	43·3	41·6	39·6	·243	2·8	0·5	87	550	SSE	0·0	0	0
	8	29·888	41·6	40·7	39·6	·243	2·8	0·2	94	552	SSE	0·0	0	0
	9	29·892	40·1	39·5	38·9	·237	2·8	0·2	95	554	SSE	0·0	0	0
	10	29·888	38·9	37·6	35·8	·210	2·5	0·3	90	556	SE	0·0	0	0
	11	29·884	38·0	38·0	38·0	·229	2·7	0·0	100	556	SE	0·0	0	0
Mar. 22.	12	29·612	33·5	32·2	29·8	·166	1·9	0·3	88	557	W	0·0	10	0
	13	29·608	32·7	31·8	30·0	·167	2·0	0·2	89	557	WSW	0·0	10	0
	14	29·595	32·3	32·0	31·4	·176	2·0	0·1	97	558	WSW	0·0	10	0
	15	29·584	31·9	31·7	31·5	·177	2·1	0·1	99	558	WSW	0·0	10	0
	16	29·580	31·8	31·2	29·9	·166	2·1	0·2	94	558	WSW	0·0	10	0
	17	29·576	31·5	31·1	30·3	·169	2·0	0·2	93	558	SW	0·0	10	0
	18	29·568	31·5	31·2	30.6	·171	2·1	0·2	97	558	SW	0·0	9	0
	19	29·568	31·4	31·0	30·1	·168	2·0	0·1	95	558	SSW	0·0	7	3
	20	29·567	33·3	32·1	29·8	·166	2·0	0·3	88	556	SSW	0·0	7	5
	21	29·571	34·9	33·1	30·2	·168	2·0	0·4	82	554	SSW	0·0	10	3

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Mar. 8. 17	..	..	..	..	Generally overcast; high wind.
18	..	..	..	..	Partially cloudy; high wind.
19	..	..	..	..	Overcast; high wind; snow falling.
20	..	..	..	..	Generally overcast.
21	..	..	..	..	Cirrus and cirro-cumulus in many directions; violent squalls.
22	..	..	..	..	Generally overcast; violent squalls.
23	..	..	..	..	Partially cloudy; cumulus and cirro-cumulus; violent squalls.
Mar. 9. 0	..	..	..	..	Cirro-cumulus in many directions; the wind is calmer.
1	..	..	..	..	Generally overcast; heavy storm of sleet.
2	..	..	..	..	Partially cloudy; snow fell at $1^h.\ 30^m$.
3	..	..	..	..	Partially cloudy; frequent falls of snow.
4	..	..	..	..	Generally overcast.
5	..	..	..	..	Overcast; hail and snow falling.
6	..	..	..	..	Cloudless; very variable.
7	..	..	..	..	Generally overcast.
8	..	..	..	..	Partially cloudy.
9	..	..	..	..	Overcast; snow falling.
10	..	..	..	..	Stratus and loose scud; a lunar corona; frequent showers of hail and snow.
11	..	..	..	..	Cirro-stratus and loose scud; a lunar corona.
Mar. 15. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Generally clear; cirro-stratus and cirrus.
21	..	..	..	..	Cloudless.
22	..	..	..	..	Partially cloudy; cumulus and cirro-cumulus.
23	..	..	..	..	Light clouds in every direction.
Mar. 16. 0	5	5	..	..	Cumulus near the horizon.
1	15	20	..	..	Generally overcast.
2	15	20	..	..	Partially cloudy; cumulus.
3	40	40	..	..	Partially cloudy.
4	35	40	..	..	Dark clouds in every direction.
5	60	40	..	..	Partially cloudy; a few drops of rain fell at $4^h.\ 30^m$.
6	60	40	..	..	Stratus and fragments of cirrus.
7	80	40	..	..	Cloudless.
8	80	40	..	..	Cloudless.
9	50	40	..	..	Cloudless.
10	Out of range	40	..	..	Cloudless; slight fog.
11	Out of range	40	..	..	Cloudless; slight fog.
Mar. 22. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Generally overcast.
19	0	0	..	..	Partially cloudy; cirro-cumulus.
20	0	0	..	..	Cirro-cumulus and cirrus in many directions.
21	0	0	..	..	Overcast; snow falling.

March 8, 9, and 15. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d	h	in.	°	°	°	in.	gr.	gr.		gr.		in.		
Mar. 22.	22	29·565	35·4	33·2	29·8	·166	2·0	0·5	80	554	SSW	0·0	10	0
	23	29·595	35·6	33·2	29·5	·163	1·9	0·5	78	553	SSW	0·0	10	0
Mar. 23.	0	29·554	40·3	36·6	31·9	·180	2·1	0·9	71	548	SSW	0·0	9	0
	1	29·548	40·6	36·2	30·6	·171	1·9	1·0	67	548	SSW	0·0	10	0
	2	29·545	41·7	36·8	30·7	·172	2·0	1·0	66	546	SSW	0·0	8	0
	3	29·540	40·3	36·0	30·5	·170	2·0	1·0	67	548	SSW	0·0	10	0
	4	29·532	41·2	36·6	30·8	·172	2·0	1·0	66	547	SSW	0·0	5	0
	5	29·531	39·8	35·2	29·4	·162	1·8	1·0	65	548	SSW	0·0	0	0
	6	29·538	37·6	34·0	29·0	·160	1·8	0·6	71	551	SSW	0·0	0	0
	7	29·542	35·1	32·9	29·5	·163	1·9	0·6	77	554	SSE	0·0	0	0
	8	29·543	33·3	31·7	28·7	·158	1·9	0·4	82	556	SSE	0·0	0	0
	9	29·542	32·5	31·2	28·5	·156	1·8	0·3	85	557	SSE	0·0	0	0
	10	29·544	31·0	31·0	31·0	·174	2·1	0·0	100	558	SSE	0·0	0	0
	11	29·536	31·0	31·0	31·0	·174	2·1	0·0	100	558	SSE	0·0	0	0
Mar. 29.	12	29·384	45·9	42·3	38·2	·231	2·7	0·9	75	538	SE	0·0	10	0
	13	29·351	45·5	42·1	38·2	·231	2·7	0·8	76	537	SE	0·0	4	0
	14	29·307	45·4	41·9	37·9	·228	2·7	0·8	75	538	SSE	0·0	10	0
	15	29·269	45·5	42·2	38·4	·232	2·7	0·8	76	537	SSE	0·0	10	0
	16	29·242	45·5	42·4	38·9	·237	2·8	0·7	78	536	SSE	0·0	10	0
	17	29·215	44·9	43·0	40·8	·255	2·9	0·5	86	536	SE	0·0	10	0
	18	29·187	44·1	43·5	42·8	·275	3·2	0·2	95	536	SE	0·0	10	1
	19	29·161	44·8	44·3	43·8	·286	3·3	0·1	96	535	SE	0·0	10	2
	20	29·151	46·8	46·0	45·1	·301	3·5	0·2	94	533	SSE	0·0	10	6
	21	29·123	49·8	47·2	44·4	·295	3·4	0·6	82	529	SSW	0·0	6	9
	22	29·108	48·8	47·2	45·4	·304	3·4	0·4	88	530	SW	2·0	10	1
	23	29·096	51·2	48·2	45·1	·301	3·4	0·9	80	527	WSW	2·0	10	3
Mar. 30.	0	29·075	54·3	49·3	44·5	·294	3·4	1·5	69	524	WSW	3·5	9	3
	1	29·055	53·0	48·1	43·2	·279	3·1	1·4	70	525	WSW	4·0	6	3
	2	29·035	50·1	46·7	43·1	·278	3·2	0·9	77	527	WSW	3·5	10	3
	3	29·025	49·0	46·3	43·4	·281	3·2	0·8	81	528	WSW	3·0	10	3
	4	29·019	47·5	45·2	42·7	·274	3·1	0·6	87	530	WSW	0·0	10	3
	5	29·017	45·4	43·7	41·8	·265	2·8	0·5	88	532	WSW	0·0	10	3
	6	29·016	45·0	44·3	43·5	·283	3·2	0·2	94	532	WSW	0·0	10	3
	7	29·020	44·8	43·5	42·0	·267	3·1	0·3	90	533	WSW	0·0	10	5
	8	29·026	44·5	43·0	41·3	·260	3·0	0·4	88	533	WSW	0·0	10	5
	9	29·029	44·2	43·0	41·6	·263	3·0	0·3	90	534	WSW	0·0	10	10
	10	29·028	44·3	43·0	41·5	·262	3·0	0·4	89	533	W	0·0	10	4
	11	29·034	44·4	43·0	41·4	·261	3·0	0·4	89	533	W	0·0	10	3
April 5.	12	29·427	51·3	50·2	49·1	·349	4·0	0·3	92	533	SSE	0·0	10	1
	13	29·425	50·9	49·8	48·7	·344	3·8	0·3	93	533	SSE	0·0	10	1
	14	29·413	50·8	49·7	48·5	·342	3·8	0·3	92	533	SSE	0·0	10	2
	15	29·411	50·4	49·4	48·3	·339	3·8	0·3	93	533	SSE	0·0	10	2
	16	29·410	51·1	50·2	49·3	·352	4·0	0·2	93	533	SSE	0·0	10	2
	17	29·409	51·2	50·1	49·0	·348	4·0	0·4	93	533	SSE	0·0	10	3
	18	29·416	51·7	50·7	49·7	·357	4·0	0·3	93	532	SSW	0·0	10	5
	19	29·442	51·9	51·0	50·1	·362	4·1	0·3	94	532	SSW	0·0	10	6
	20	29·457	53·2	52·1	51·2	·377	4·2	0·4	93	531	SSW	0·0	10	7
	21	29·468	56·5	54·1	51·8	·385	4·3	0·8	85	528	SW	0·0	10	10
	22	29·489	55·2	52·7	50·3	·365	4·1	0·9	84	530	SSW	0·0	10	0
	23	29·503	53·2	51·3	49·4	·351	4·1	0·6	87	532	SSW	0·0	10	0
April 6.	0	29·510	57·8	54·3	51·6	·382	4·2	1·1	79	527	SW	0·0	9	2
	1	29·514	59·3	55·2	51·6	·382	4·3	1·3	75	526	WSW	0·0	10	2
	2	29·522	61·4	56·2	51·8	·385	4·3	1·8	71	524	WSW	0·0	10	2
	3	29·523	61·3	55·7	50·9	·373	4·2	2·0	70	524	WSW	0·0	8	2
	4	29·542	61·3	55·8	51·1	·375	4·2	2·0	70	524	WSW	0·0	7	2

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°	..	..	
Mar. 22. 22	0	0	..	..	Overcast ; snow falling.
23	0	0	..	..	Overcast ; snow falling.
Mar. 23. 0	0	0	..	..	Generally overcast.
1	0	0	..	..	Overcast.
2	0	0	..	..	Generally overcast.
3	5	5	..	..	Overcast.
4	5	5	..	..	Partially cloudy ; cumulus and cirrus.
5	30	20	..	..	Cloudless.
6	20	10	..	..	Cloudless.
7	0	0	..	..	Cloudless.
8	0	0	..	..	Cloudless.
9	0	0	..	..	Cloudless.
10	0	0	..	..	Cloudless.
11	0	0	..	..	Cloudless.
Mar. 29. 12	0	0	..	..	Overcast.
13	0	0	..	..	Partially cloudy.
14	0	0	..	..	Overcast ; fog.
15	0	0	..	..	Overcast ; fog.
16	0	0	..	..	Overcast ; fog.
17	0	0	..	..	Overcast ; rain falling.
18	0	0	..	..	Overcast ; heavy rain falling.
19	0	0	..	..	Overcast ; thin rain falling.
20	0	0	..	..	Overcast.
21	0	0	..	..	Generally cloudy ; frequent showers of rain.
22	0	0	..	..	Overcast ; strong wind.
23	0	0	..	..	Overcast ; strong wind ; frequent showers of rain.
Mar. 30. 0	5	5	..	..	Generally overcast ; strong wind.
1	10	10	..	..	Partially cloudy ; strong wind.
2	0	0	..	..	Overcast ; heavy squalls.
3	20	20—	..	..	Overcast ; heavy squalls.
4	15	20—	..	..	Overcast ; thin rain falling.
5	80	40—	2′ to B	..	Overcast ; heavy rain falling.
6	5	5—	..	..	Overcast ; heavy rain falling.
7	0	0	..	..	Overcast ; thin rain falling.
8	0	0	..	..	Overcast.
9	0	0	..	..	Overcast.
10	0	0	..	..	Overcast.
11	0	0	..	..	Overcast.
April 5. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast ; rain falls occasionally.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	0	0	..	..	Overcast.
21	0	0	..	..	Overcast.
22	0	0	..	..	Overcast.
23	0	0	..	..	Overcast.
April 6. 0	0	0	..	..	Generally overcast.
1	0	0	..	..	Overcast.
2	0	0	..	..	Overcast.
3	0	0	..	..	Partially overcast ; cirro-cumulus ; cirrus and nimbus.
4	0	0	..	..	Partially overcast ; cirro-cumulus ; cirrus and nimbus.

1857. Month, Day, and Hour.	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0–10.	Ozone. 0–10.
											lbs.		
April 6. 5	29·563	56·8	54·0	51·4	·337	4·2	0·9	82	529	SSW	0·0	6	0
6	29·570	55·4	53·0	50·8	·321	4·2	0·8	85	531	SSW	0·0	8	0
7	29·601	52·9	51·4	49·9	·360	4·0	0·4	91	534	SSW	0·0	6	0
9	29·635	52·5	50·8	49·1	·349	3·9	0·5	88	535	SSW	0·0	9	0
10	29·645	50·8	49·5	48·1	·336	3·9	0·4	91	537	SSW	0·0	5	0
11	29·660	49·0	48·2	47·3	·327	3·8	0·2	94	540	SSW	0·0	0	0
April 12. 12	28·865	38·8	37·7	36·3	·214	2·5	0·3	91	537	WSW	3·0	10	7
13	28·834	38·1	37·2	36·0	·212	2·5	0·2	93	537	WNW	3·0	10	8
14	28·834	36·2	35·8	35·2	·205	2·4	0·1	95	539	NNW	0·0	10	8
15	28·820	35·1	34·5	33·6	·193	2·2	0·2	94	540	WNW	0·0	10	9
16	28·814	34·5	34·2	33·7	·193	2·2	0·2	93	541	WNW	0·0	1	9
17	28·805	34·0	33·3	32·1	·182	2·2	0·2	94	541	WNW	0·0	3	9
18	28·805	34·1	33·5	32·5	·184	2·2	0·1	94	541	WNW	0·0	5	10
19	28·806	36·3	35·1	33·4	·192	2·2	0·4	90	538	WNW	3·5	7	10
20	28·819	37·9	36·1	33·6	·193	2·2	0·4	85	537	NW	4·0	10	10
21	28·820	38·5	36·6	34·1	·196	2·3	0·5	83	536	NW	4·0	10	9
22	28·825	38·4	37·1	35·3	·206	2·4	0·4	88	536	NNW	3·5	10	0
23	28·837	39·5	37·2	34·3	·198	2·4	0·6	82	536	NNW	3·0	10	0
April 13. 0	28·852	39·9	38·0	35·6	·208	2·4	0·4	85	535	WNW	3·0	10	0
1	28·861	42·7	40·5	37·9	·228	2·6	0·5	84	532	WNW	3·0	10	0
2	28·854	44·2	40·3	35·7	·209	2·5	0·8	72	531	WNW	2·0	10	0
3	28·866	43·2	39·6	35·3	·206	2·4	0·8	74	532	WNW	2·5	10	0
4	28·891	43·0	40·0	35·4	·207	2·4	0·9	72	531	NW	4·5	10	0
5	28·913	38·5	38·0	37·3	·223	2·7	0·1	96	538	NW	3·0	10	0
6	28·940	38·5	38·1	37·5	·225	2·7	0·1	96	538	NW	4·5	10	0
7	28·969	38·6	37·0	34·8	·202	2·3	0·4	87	539	NW	4·0	10	0
8	28·977	37·3	36·5	35·4	·207	2·5	0·4	92	540	NW	4·5	10	0
9	28·998	33·4	33·4	33·4	·191	2·2	0·0	100	544	NW	4·5	10	0
10	29·011	34·5	34·5	34·5	·199	2·3	0·0	100	544	NW	4·0	10	0
11	29·025	34·5	34·5	34·5	·199	2·3	0·0	100	544	NW	4·0	10	0
April 19. 12	30·033	46·5	44·4	42·1	·268	3·1	0·5	86	549	WSW	0·0	0	0
13	30·036	46·0	44·3	42·3	·273	3·2	0·4	88	550	WSW	0·0	0	0
14	30·041	45·5	43·9	41·8	·265	3·6	0·4	88	551	WSW	0·0	0	0
15	30·045	44·0	43·1	42·1	·268	3·0	0·3	93	552	WSW	0·0	0	0
16	30·046	43·0	42·3	41·5	·262	3·0	0·2	94	554	WSW	0·0	0	0
17	30·053	42·5	41·9	41·2	·259	3·0	0·1	95	554	WSW	0·0	0	0
18	30·074	44·1	42·7	41·4	·261	2·9	0·4	90	555	WSW	0·0	0	0
19	30·101	47·7	45·8	43·8	·286	3·2	0·6	88	549	WSW	0·0	0	2
20	30·108	52·5	48·5	44·4	·293	3·4	1·0	75	544	WNW	0·0	0	1
21	30·122	53·4	49·4	45·5	·305	3·5	1·1	75	543	WSW	0·0	0	2
22	30·125	58·2	52·6	46·4	·316	3·6	1·9	65	537	WNW	0·0	2	0
23	30·121	61·5	53·2	46·0	·311	3·5	2·6	57	535	W	0·0	4	0
April 20. 0	30·111	64·3	55·4	48·1	·336	3·7	3·0	55	532	W	0·0	6	0
1	30·107	63·5	54·4	46·8	·321	3·6	2·9	56	532	W	0·0	6	0
2	30·101	66·1	56·2	48·2	·338	3·7	3·3	53	530	W	0·0	7	0
3	30·097	62·5	53·8	46·4	·316	3·5	2·8	56	532	WNW	0·0	8	0
4	30·095	63·7	54·3	46·4	·316	3·5	3·0	54	536	WNW	0·0	3	0
5	30·093	60·6	52·0	44·6	·295	3·2	2·7	56	538	WNW	0·0	2	0
6	30·098	58·2	50·5	43·6	·284	3·2	2·3	58	538	WNW	0·0	1	0
7	30·102	55·3	49·4	43·8	·286	3·2	1·8	66	541	NW	0·0	3	0
8	30·115	54·3	48·6	43·1	·278	3·2	1·6	66	543	WNW	0·0	4	0
9	30·124	53·5	48·3	43·2	·279	3·2	1·4	69	542	WNW	0·0	9	0
10	30·119	52·9	47·5	42·1	·268	3·1	1·4	67	541	WNW	0·0	0	0
11	30·131	49·0	46·0	42·8	·275	3·1	0·9	79	548	WNW	0·0	0	0

April 6 . 8 . The observation was inadvertently omitted.

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws. of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B	Distance in Inches between Balls of Ronalds' Spark Instrument. No. of Sparks, &c	Clouds and Weather.
	°	°			
April 6. 5	0	0	..	..	Partially cloudy.
6	0	0	..	..	Generally cloudy.
7	0	0	..	..	Partially cloudy ; lunar corona.
9	10	10	..	.	Generally overcast.
10	10	10	..	..	Partially cloudy ; lunar corona.
11	10	15	..	..	Cloudless.
April 12. 12	5	5	..	..	Overcast ; gusty wind.
13	0	0	..	..	Overcast ; gusty wind ; thin rain falling.
14	0	0	..	..	Overcast ; rain falling heavily.
15	0	0	..	..	Overcast.
16	0	0	..	..	Generally cloudless.
17	0	0	..	..	Partially cloudy.
18	5	5	..	..	Partially cloudy.
19	5	5	..	..	Generally overcast ; high wind.
20	0	0	..	..	Overcast ; violent squalls.
21	0	0	..	..	Overcast ; rain falling ; violent squalls.
22	25	30—	..	..	Overcast ; rain falling ; violent squalls.
23	0	0	..	..	Overcast ; violent squalls.
April 13. 0	0	0	..	..	Overcast ; slight rain falling ; violent squalls.
1	0	0	..	..	Overcast ; violent squalls.
2	0	0	..	..	Overcast ; violent squalls.
3	0	0	..	..	Overcast ; violent squalls.
4	0	0	..	..	Overcast ; violent squalls.
5	Out of range	40 ; 40—	5 to A	..	Overcast ; heavy rain falling ; violent squalls.
6	0	0	..	..	Overcast ; high wind.
7	0	0	..	..	Overcast ; high wind.
8	0	0	..	..	Overcast ; high wind.
9	0	0	..	..	Overcast ; high wind ; heavy squalls of snow and rain.
10	0	0	..	..	Overcast ; high wind.
11	0	0	..	..	Overcast ; high wind.
April 19. 12	12	15	..	..	Cloudless.
13	8	15	..	..	Cloudless.
14	5	5	..	..	Cloudless.
15	15	20	..	..	Cloudless.
16	20	25	..	..	Cloudless.
17	30	35	..	..	Cloudless.
18	80	40	..	..	Cloudless.
19	Out of range	40	..	..	Cloudless.
20	Out of range	40	..	..	Cloudless ; haze.
21	Out of range	40	..	..	Cloudless ; thick fog.
22	Out of range	40	..	..	Generally cloudless.
23	30	30	..	..	Light clouds here and there.
April 20. 0	5	5	..	..	Partially cloudy ; cumulus.
1	0	0	..	..	Partially cloudy ; cumulus and cirrus.
2	0	0	..	..	Partially cloudy ; cumulus and cirrus.
3	0	0	..	..	Cumulus, cirrus, and cirro-cumulus in all directions.
4	20	20	..	..	Cumulus and cirro-cumulus near the horizon.
5	30	40	..	..	Generally cloudless.
6	0	0	..	..	Generally cloudless.
7	10	20	..	..	Light clouds here and there.
8	20	30	..	..	Hazy.
9	20	20	..	..	Generally overcast.
10	30	20	..	..	Cloudless.
11	30	20	..	..	Cloudless.

1857. Month, Day, and Hour.	Readings of Barometer corrected to 32° Fahr.	Readings of Dry Thermometer.	Readings of Wet Thermometer.	Hygrometrical Deductions. Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind. Direction.	Wind. Pressure.	Clouds. 0–10.	Ozone. 0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lb.		
April 26. 12	29·872	36·5	34·3	31·1	·174	2·1	0·5	81	558	NNE	2·0	10	0
13	29·884	36·1	34·0	30·7	·173	2·0	0·5	83	559	NNE	2·0	10	0
14	29·879	36·1	34·0	30·9	·175	2·0	0·5	83	559	NNE	2·0	10	0
15	29·872	35·8	34·3	32·0	·181	2·0	0·4	87	559	NNE	0·0	10	0
16	29·876	36·1	34·5	31·6	·178	2·0	0·4	86	559	NNE	0·0	10	0
17	29·885	36·1	34·4	31·9	·180	2·1	0·4	84	559	NNE	0·0	10	0
18	29·892	36·3	34·6	32·1	·182	2·1	0·5	85	559	NNE	0·0	10	0
19	29·888	37·7	35·5	32·5	·184	2·1	0·5	82	557	NNE	0·0	10	0
20	29·896	38·1	36·0	33·2	·189	2·2	0·5	82	557	NNE	0·0	10	0
21	29·895	37·7	36·6	32·5	·184	2·1	0·7	76	555	NNE	0·0	10	0
22	29·888	40·8	36·7	31·5	·177	2·0	0·9	70	554	NNE	0·0	10	0
23	29·890	41·9	36·8	30·5	·170	1·9	1·2	65	552	NNE	0·0	10	0
April 27. 0	29·901	42·3	37·7	32·1	·182	2·1	1·1	72	552	NNE	0·0	10	0
1	29·894	45·0	39·8	33·8	·194	2·3	1·1	65	548	NNE	0·0	10	0
2	29·889	44·0	39·0	33·1	·188	2·2	1·2	65	550	NNE	0·0	10	0
3	29·879	45·4	40·4	34·7	·201	2·4	1·1	66	548	NNE	0·0	10	0
4	29·894	42·1	38·3	33·7	·193	2·3	0·8	74	552	NNE	0·0	10	0
5	29·900	42·5	38·4	33·4	·191	2·3	0·9	71	552	NNE	0·0	10	0
6	29·899	41·9	37·7	32·5	·184	2·1	1·0	70	553	NNE	0·0	10	0
7	29·898	40·8	37·1	32·4	·184	2·1	0·8	71	554	NNE	0·0	10	0
8	29·927	40·3	36·8	31·7	·179	2·1	0·9	73	555	NNE	0·0	10	0
9	29·931	39·6	36·8	33·0	·188	2·2	0·7	77	555	NNE	0·0	10	0
10	29·935	38·6	36·5	33·7	·193	2·2	0·5	83	557	NNE	0·0	10	0
11	29·938	38·1	36·2	33·7	·193	2·2	0·5	83	558	NNE	0·0	10	0
May 3. 12	30·036	34·1	33·5	32·5	·184	2·2	0·1	94	564	NE	0·0	0	0
13	30·024	33·3	32·9	32·2	·182	2·1	0·1	96	564	NE	0·0	0	0
14	30·008	33·1	32·8	32·2	·182	2·2	0·1	96	564	NE	0·0	0	0
15	30·005	32·2	32·1	32·0	·181	2·1	0·1	99	565	NE	0·0	0	0
16	29·999	32·7	32·6	32·5	·184	2·1	0·1	99	565	NE	0·0	0	2
17	30·002	33·7	33·6	33·5	·192	2·2	0·1	99	564	NE	0·0	1	2
18	30·010	37·3	36·7	35·9	·211	2·5	0·2	94	559	NE	0·0	10	2
19	30·013	42·2	40·4	38·2	·231	2·7	0·4	87	555	NE	0·0	10	3
20	30·019	44·1	41·4	38·2	·231	2·7	0·6	80	552	NE	0·0	10	5
21	30·020	47·0	42·6	37·7	·226	2·6	1·1	71	549	NNE	0·0	10	7
22	30·008	49·0	43·1	36·5	·219	2·5	1·5	62	547	ENE	0·0	10	0
23	30·007	49·3	43·6.	37·5	·225	2·6	1·4	64	546	ENE	0·0	10	0
May 4. 0	29·995	51·1	45·4	39·5	·242	2·8	1·4	65	544	ENE	0·0	7	0
1	29·996	51·2	45·0	38·6	·234	2·7	1·6	62	544	ENE	0·0	8	0
2	29·992	53·7	47·3	41·0	·257	2·9	1·7	62	541	ENE	0·0	5	0
3	29·985	52·2	45·6	37·7	·226	2·6	1·8	58	543	ENE	0·0	8	0
4	29·993	52·5	45·3	38·0	·229	2·7	1·8	59	542	ENE	0·0	9	0
5	29·994	50·9	43·6	36·0	·212	2·4	1·8	58	544	ENE	0·0	6	0
6	30·001	48·7	42·5	35·6	·208	2·4	1·5	60	549	ENE	0·0	8	0
7	30·009	47·5	40·4	32·5	·184	2·2	1·6	56	548	ENE	0·0	2	0
8	30·015	42·0	38·6	34·4	·199	2·3	0·8	76	555	ENE	0·0	1	0
9	30·023	39·7	37·5	34·7	·201	2·3	0·5	82	557	ENE	0·0	0	0
10	30·040	37·6	36·3	34·5	·199	2·3	0·3	89	560	ENE	0·0	0	0
11	30·043	36·1	35·0	33·4	·191	2·2	0·3	90	562	ENE	0·0	0	0
May 10. 12	29·496	48·5	47·4	46·1	·312	3·5	0.4	92	537	ENE	0·0	10	0
13	29·496	49·2	48·3	47·3	·327	3·8	0·3	94	536	ENE	0·0	10	0
14	29·495	48·8	48·5	48·3	·339	3·7	0·4	98	537	ENE	0·0	10	0
15	29·493	49·2	48·0	48·8	·345	4·0	0·1	99	536	ENE	0·0	10	3
16	29·490	49·0	48·5	48·0	·335	3·9	0·1	98	536	ENE	0·0	10	8
17	29·496	49·1	48·5	47·9	·334	3·9	0·1	98	536	ENE	0·0	10	8
18	29·502	49·8	49·1	48·3	·339	3·9	0·2	95	536	ENE	0·0	10	8
19	29·508	50·1	49·5	49·0	·348	4·0	0·2	96	535	ENE	0·0	10	9

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
h d	°	°			
April 26. 12	10	10	..	..	Overcast.
13	5	5	..	..	Overcast.
14	5	5	..	..	Overcast.
15	20	20	..	..	Overcast.
16	10	10	..	..	Overcast.
17	20	20	..	..	Overcast.
18	15	15	..	..	Generally overcast.
19	25	25	..	..	Overcast.
20	10	10	..	..	Overcast.
21	30	30	..	..	Overcast.
22	0	0	..	..	Overcast.
23	5	5—	..	..	Overcast.
April 27. 0	10	10	..	..	Overcast.
1	0	0	..	..	Overcast.
2	5	10	..	..	Overcast.
3	10	10	..	..	Overcast.
4	5	5	..	..	Overcast.
5	30	40	..	..	Overcast.
6	8	15	..	..	Overcast.
7	20	20	..	..	Overcast.
8	20	20	..	..	Overcast.
9	Out of range	40	..	..	Overcast.
10	Out of range	40	..	..	Overcast.
11	Out of range	40	..	..	Overcast.
May 3. 12	15	20	..	..	Cloudless.
13	10	10	..	..	Cloudless.
14	8	10	..	..	Cloudless.
15	5	5	..	..	Cloudless.
16	5	5	..	..	Cloudless.
17	10	10	..	..	Generally cloudless.
18	20	20	..	..	Overcast.
19	20	20	..	..	Overcast.
20	10	10	..	..	Overcast.
21	10	10	..	..	Overcast.
22	8	10	..	..	Overcast.
23	8	5	..	..	Overcast.
May 4. 0	10	10	..	..	Partially cloudy ; cirro-cumulus.
1	15	15	..	..	Cirro-cumulus and cirro-stratus all over the sky.
2	20	20	..	..	Cirro-cumulus and cirro-stratus all over the sky.
3	5	5	..	..	Cirro-cumulus and cirro-stratus all over the sky.
4	5	5	..	..	Generally overcast.
5	10	10	..	..	Partially cloudy.
6	10	10	..	..	Generally cloudy.
7	25	30	..	..	Cirro-stratus here and there.
8	30	30	..	..	Almost cloudless.
9	40	40	..	..	Cloudless.
10	40	40	..	..	Cloudless.
11	40	40	..	..	Cloudless.
May 10. 12	..	..	..	..	Overcast.
13	..	..	..	..	Overcast ; thin rain falling.
14	..	..	..	..	Overcast ; thin rain falling.
15	..	..	..	..	Overcast ; thin rain falling.
16	..	..	..	..	Overcast ; thin rain falling.
17	..	..	..	..	Overcast ; thin rain falling.
18	..	..	..	..	Overcast ; thin rain falling.
19	..	..	..	..	Overcast ; thin rain falling.

May 10. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
	h.	in.	°	°		gr.	gr.		gr.		in.		
May 10. 20	29·500	52·3	51·3	50·3	·365	4·1	0·3	93	533	ENE	0·0	10	10
21	29·510	56·6	54·5	52·6	·397	4·5	0·7	86	529	ENE	0·0	10	9
22	29·524	59·2	55·7	52·5	·396	4·5	1·2	79	526	NNE	0·0	10	0
23	29·530	62·4	57·7	53·7	·413	4·6	1·8	74	523	NNE	0·0	8	0
May 11. 0	29·522	62·9	58·1	54·1	·419	4·6	1·8	73	522	NNE	0·0	10	1
1	29·521	67·1	60·4	55·0	·433	4·9	2·5	62	518	NNE	0·0	3	1
2	29·528	66·8	60·1	54·7	·428	4·7	2·5	65	518	Calm	0·0	5	2
3	29·532	69·2	61·4	55·4	·439	4·8	3·0	61	516	E	0·0	4	2
4	29·531	65·1	59·3	54·5	·425	4·7	2·1	67	520	E	0·0	8	2
5	29·543	63·9	58·4	53·8	·415	4·6	1·9	71	522	ESE	0·0	6	2
6	29·548	62·6	57·6	53·3	·407	4·5	1·9	72	523	Calm	0·0	4	2
7	29·626	58·0	55·5	53·3	·407	4·5	0·9	84	529	Calm	0·0	6	2
8	29·630	57·1	53·8	50·7	·370	4·1	1·1	80	530	Calm	0·0	1	2
9	29·641	53·4	51·8	49·8	·358	4·0	0·6	87	534	Calm	0·0	0	0
10	29·661	52·5	51·9	49·5	·355	4·0	0·4	90	536	Calm	0·0	0	0
11	29·675	51·6	50·5	49·4	·353	3·9	0·4	92	537	Calm	0·0	0	0
May 17. 12	29·915	52·0	48·2	44·3	·292	3·3	1·1	73	541	SW	0·0	0	0
13	29·912	50·6	47·0	43·2	·279	3·2	0·9	76	543	SW	0·0	0	0
14	29·908	48·8	45·5	41·9	·266	3·1	0·5	78	546	SW	0·0	0	0
15	29·904	47·4	44·6	41·5	·262	3·1	0·5	81	546	SW	0·0	0	0
16	29·906	45·8	43·7	41·3	·260	2·9	0·6	85	548	SW	0·0	0	0
17	29·904	45·1	43·5	40·2	·249	3·0	0·4	88	549	SW	0·0	0	2
18	29·904	50·6	47·5	44·2	·290	3·3	0·8	80	542	SW	0·0	2	2
19	29·902	56·9	52·8	47·1	·340	3·9	1·2	75	535	SW	0·0	0	3
20	29·891	61·7	56·2	51·5	·381	4·3	1·9	69	530	SW	0·0	0	0
21	29·897	69·2	60·8	54·2	·421	4·6	3·3	53	523	SW	0·0	0	5
22	29·890	72·4	61·8	53·9	·416	4·6	4·0	52	519	SW	0·0	0	0
23	29·883	72·1	59·8	51·1	·375	4·0	4·6	47	520	SW	0·0	0	0
May 18. 0	29·867	75·2	62·8	53·9	·416	4·5	5·0	47	516	SW	0·0	0	0
1	29·854	77·2	63·9	54·6	·427	4·5	5·5	46	514	SW	0·0	2	0
2	29·838	77·9	63·7	53·9	·416	4·4	5·9	44	513	SW	0·0	1	0
3	29·829	78·0	62·0	50·9	·373	4·0	6·3	39	513	SW	0·0	0	0
4	29·817	75·5	60·9	50·4	·366	4·0	5·6	42	515	SSW	0·0	0	0
5	29·806	71·7	58·8	49·1	·349	3·8	4·6	45	519	WSW	0·0	0	0
6	29·810	68·3	55·7	45·8	·308	3·4	4·2	44	523	NNW	0·0	3	0
7	29·812	64·7	58·4	53·1	·404	4·5	2·3	66	526	NW	0·0	6	0
8	29·819	61·7	56·0	51·1	·375	4·2	2·0	68	529	WNW	0·0	3	0
9	29·828	58·8	54·8	51·2	·377	4·2	1·4	76	532	SW	0·0	0	0
10	29·835	56·6	53·0	49·7	·357	4·0	1·1	77	534	WSW	0·0	1	0
11	29·832	55·4	53·0	50·7	·370	4·2	0·6	85	536	SW	0·0	0	0
May 24. 12	29·458	49·8	48·2	46·5	·317	3·6	0·4	89	535	SSE	0·0	10	0
13	29·450	50·8	48·6	46·3	·315	3·6	0·6	85	534	SE	0·0	7	0
14	29·439	49·9	48·3	46·6	·318	3·6	0·5	89	535	ESE	0·0	9	0
15	29·423	48·6	47·1	45·4	·304	3·4	0·5	90	536	ENE	0·0	9	0
16	29·413	48·0	46·6	45·2	·279	3·4	0·4	90	536	ESE	0·0	8	1
17	29·407	50·4	49·1	47·7	·331	3·7	0·4	86	534	ESE	0·0	7	1
18	29·406	54·9	52·6	50·4	·366	4·1	0·8	85	528	ESE	0·0	7	2
19	29·406	58·8	54·8	51·2	·377	4·2	1·3	76	524	S	0·0	0	2
20	29·393	62·4	57·1	52·6	·397	4·4	1·9	70	520	SE	0·0	1	2
21	29·371	66·0	58·2	51·9	·386	4·3	2·7	61	517	SE	0·0	3	0
22	29·352	68·9	58·2	51·3	·378	4·2	3·1	59	516	ESE	0·0	8	1
23	29·342	71·1	61·7	54·3	·421	4·6	3·7	56	511	SE	1·0	8	1
May 25. 0	29·322	70·0	57·4	46·3	·313	3·4	4·4	45	512	ESE	1·5	7	1
1	29·300	68·3	60·0	53·5	·410	4·5	3·1	59	513	ESE	2·0	8	1

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h					
May 10. 20	..	..	..	..	Overcast; thin rain falling.
21	..	..	..	..	Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Generally overcast.
May 11. 0	0	0	..	..	Cumulus and cirro-cumulus cover the sky.
1	0	0	..	..	Cumulus near the horizon; otherwise cloudless.
2	0	0	..	..	Partially cloudy; cirro-cumulus.
3	5	5	..	..	Partially cloudy; cirro-cumulus.
4	15	15	..	..	Generally overcast.
5	Out of range	40; 40—	..	..	Partially cloudy; cumulus and cirro-cumulus.
6	60	40	..	..	Cumulus and cirro-stratus here and there.
7	30	30	..	..	Cirro-stratus all over the sky.
8	10	10	..	..	Cirro-cumulus and cirro-stratus near the horizon.
9	20	20	..	..	Cloudless.
10	20	20	..	..	Generally cloudless; frequent flashes of lightning.
11	30	20	..	..	Generally cloudless; frequent flashes of lightning.
May 17. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	30	30	..	..	Cloudless.
17	20	25	..	..	Cloudless.
18	40	40	..	..	Cirro-cumulus in the zenith.
19	35	30	..	..	Cloudless.
20	60	40	..	..	Cloudless.
21	40	40	..	..	Cloudless.
22	12	10	..	..	Cloudless.
23	10	10	..	..	Cloudless.
May 18. 0	10	10	..	..	Cloudless.
1	10	10	..	..	Cirro-cumulus near the horizon.
2	5	5	..	..	Light cirrus near the horizon.
3	10	10	..	..	Cloudless.
4	10	10	..	..	Cloudless.
5	5	5	..	..	Cloudless.
6	20	20	..	..	Cirrus and cirro-stratus near the horizon.
7	20	20	..	..	Cirrus and cirro-stratus near the horizon.
8	0	0	..	..	Cumulus, cirrus, and cirro-stratus cover a large portion of the sky.
9	20	20	..	..	Cloudless.
10	10	20	..	..	Stratus in the W.; elsewhere clear.
11	20	30	..	..	Cloudless.
May 24. 12	0	0	..	..	Overcast.
13	0	0	..	..	Cirro-cumulus in many directions.
14	5	5	..	..	Generally overcast; cirro-cumulus.
15	0	0	..	..	Generally overcast; cirro-cumulus and cirro-stratus.
16	0	0	..	..	Cirrus, cirro-stratus, and cirro-cumulus cover a large portion of the sky.
17	5	5	..	..	Partially cloudy; cirro-stratus.
18	10	10	..	..	Cirrus in many directions.
19	5	5	..	..	Cloudless.
20	0	0	..	..	Cirro-stratus and cirrus about the horizon.
21	0	0	..	..	Cirro-cumulus in the S.; elsewhere clear.
22	0	0	..	..	Cumulus and cirro-cumulus in many directions.
23	0	0	..	..	Cumulus and cirro-cumulus in many directions.
May 25. 0	0	0	..	..	Cirro-cumulus in all directions.
1	20	30	..	..	Generally overcast; cirro-cumulus; strong wind.

1857. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air	Degree of Humidity (Sat=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
	h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
May 25.	2	29·279	68·3	59·2	52·1	·389	4·3	3·3	56	513	ESE	2·0	8	1
	3	29·263	66·8	57·7	50·4	·366	4·0	3·2	61	514	ESE	2·0	8	2
	4	29·246	63·6	56·7	51·0	·374	4·1	2·3	64	517	ESE	2·0	9	2
	5	29·237	59·2	55·0	51·2	·377	4·3	1·4	75	521	ESE	1·5	10	2
	6	29·228	59·4	55·4	51·9	·386	4·3	1·3	76	521	ESE	1·0	10	3
	7	29·224	56·8	54·4	52·2	·391	4·3	0·8	84	523	ESE	0·0	9	4
	8	29·234	55·4	54·0	52·6	·397	4·5	0·5	91	524	ESE	0·0	10	4
	9	29·252	54·2	53·3	52·4	·394	4·5	0·3	94	526	ESE	0·0	10	5
	10	29·257	53·4	52·5	51·6	·382	4·4	0·3	95	527	ESE	0·0	10	5
	11	29·270	52·9	51·6	50·3	·365	4·0	0·4	92	528	ESE	0·0	10	5
May 31.	12	29·934	44·4	43·8	43·1	·278	3·2	0·2	95	550	NE	0·0	0	0
	13	29·924	43·2	43·1	43·0	·277	3·2	0·6	99	551	NE	0·0	0	0
	14	29·915	41·5	41·5	41·5	·262	3·0	0·0	100	553	NNE	0·0	0	0
	15	29·906	40·1	40·1	40·1	·248	2·9	0·0	100	554	NNE	0·0	0	0
	16	29·899	40·7	40·7	40·7	·254	3·0	0·0	100	554	NNE	0·0	0	2
	17	29·901	41·6	41·6	41·6	·263	3·2	0·0	100	553	NNE	0·0	0	3
	18	29·894	47·4	46·6	45·8	·308	3·5	0·2	94	546	NNE	0·0	0	3
	19	29·891	53·2	50·8	48·4	·340	3·8	0·8	84	541	NNE	0·0	0	4
	20	29·886	59·9	54·4	49·5	·355	3·9	1·9	68	532	ENE	0·0	3	5
	21	29·887	65·7	57·4	50·7	·370	4·0	2·9	58	526	ENE	0·0	4	6
	22	29·888	62·4	52·7	44·4	·293	3·3	3·0	52	530	ESE	0·0	10	0
	23	29·880	63·1	51·5	41·6	·263	2·9	3·5	45	529	E	0·0	10	0
June 1.	0	29·869	63·8	54·8	47·2	·325	3·5	3·0	56	528	E	0·0	8	0
	1	29·863	64·7	54·5	46·1	·312	3·4	3·3	51	527	E	0·0	7	0
	2	29·861	65·4	54·6	45·8	·308	3·4	3·5	49	527	E	0·0	3	0
	3	29·859	64·8	54·1	45·3	·303	3·3	3·4	50	527	E	0·0	1	0
	4	29·846	62·4	51·3	41·8	·265	3·0	3·3	47	529	E	0·0	0	0
	5	29·848	58·9	49·7	41·5	·262	2·9	2·7	52	533	E	0·0	2	0
	6	29·842	56·6	48·9	41·7	·264	3·0	2·1	58	535	E	0·0	3	0
	7	29·840	53·9	49·0	44·2	·290	3·3	1·4	69	538	E	0·0	0	0
	8	29·835	51·7	48·5	45·3	·303	3·4	0·9	79	540	E	0·0	0	0
	9	29·834	50·8	47·9	44·9	·298	3·4	0·8	80	541	ENE	0·0	0	0
	10	29·837	49·0	46·6	44·0	·288	3·3	0·7	83	542	ESE	0·0	0	0
	11	29·825	47·0	45·5	43·8	·286	3·3	0·4	89	543	ESE	0·0	0	0
June 7.	12	29·567	56·5	54·4	52·4	·394	4·4	0·7	87	530	SW	2·0	10	0
	13	29·575	55·7	53·2	50·8	·371	4·2	0·7	84	531	SW	1·5	10	2
	14	29·583	55·1	52·3	49·6	·356	4·0	0·9	83	531	SW	1·0	9	2
	15	29·585	54·0	51·3	48·7	·344	3·9	0·8	82	533	SW	1·0	10	2
	16	29·594	53·6	51·2	48·9	·346	3·9	0·7	83	533	SW	1·0	2	2
	17	29·600	54·9	51·7	48·6	·343	3·9	1·0	79	532	SW	1·0	3	2
	18	29·609	56·6	52·3	48·3	·339	3·8	1·3	74	531	SW	1·0	6	3
	19	29·617	57·4	53·1	49·2	·351	3·9	1·4	73	530	SW	2·3	7	3
	20	29·614	60·0	55·0	50·6	·369	4·1	1·7	71	527	SW	1·5	1	3
	21	29·611	61·5	55·6	50·5	·367	4·2	1·6	68	525	SW	2·0	8	2
	22	29·609	65·0	57·2	50·8	·371	4·1	2·7	60	522	SW	2·5	6	0
	23	29·602	65·7	57·8	51·4	·379	4·1	2·8	59	521	SW	2·0	6	0
June 8.	0	29·619	63·4	58·3	54·0	·418	4·7	1·8	72	524	SW	3·0	3	0
	1	29·620	65·1	57·2	50·7	·370	4·2	2·7	60	522	SW	1·5	6	0
	2	29·603	67·7	59·0	52·1	·389	4·3	3·2	57	519	SW	2·0	5	0
	3	29·609	65·8	57·7	51·1	·375	4·1	2·8	60	521	SW	2·0	7	0
	4	29·620	56·0	54·3	52·7	·399	4·5	0·7	89	531	SW	0·0	10	1
	5	29·608	53·5	52·3	50·5	·367	4·2	0·4	90	533	SW	0·0	10	1
	6	29·606	56·2	53·8	51·4	·379	4·3	0·7	85	531	SW	0·0	5	3
	7	29·619	54·6	53·0	51·4	·379	4·3	0·5	89	533	SW	0·0	8	3
	8	29·625	54·0	53·0	52·0	·388	4·4	0·3	93	533	SW	0·0	4	6

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h	°	°			
May 25. 2	20	20	..	..	Generally overcast; cirro-cumulus.
3	30	30	..	..	Generally overcast; cirro-cumulus.
4	15	20	..	..	Generally overcast; hail fell at $3^h.\ 40^m$.
5	Out of range	40—	12° to B	2 in 1' at 0·03	Overcast; hail and rain falling; thunder heard every few minutes.
6	Out of range	40—	..	..	Overcast; rain falling.
7	Out of range	40—	..	..	Overcast.
8	Out of range	40—	..	..	Overcast; rain falling.
9	Out of range	40—	..	..	Overcast; rain falling.
10	Out of range	40—	..	..	Overcast; the rain has ceased.
11	Out of range	40—	..	..	Overcast.
May 31. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cumulus in many directions.
21	..	..	..	..	Partially cloudy; cumulus and cirro-cumulus.
22	0	0	..	..	Overcast; cirro-cumulus.
23	10	10	..	..	Overcast; cirro-cumulus and cumulus.
June 1. 0	5	5	..	..	Generally overcast.
1	0	0	..	..	Cumulus and cirro-cumulus all over the sky.
2	5	5	..	..	Cirro-cumulus and cirro-stratus scattered over the sky.
3	0	0	..	..	Generally cloudless.
4	5	5	..	..	Cloudless.
5	5	5	..	..	Cirrus near the horizon.
6	10	10	..	..	Cirrus near the horizon.
7	20	20	..	..	Cloudless.
8	40	30	..	..	Cloudless.
9	20	30	..	..	Cloudless.
10	20	30	..	..	Cloudless.
11	20	30	..	..	Cloudless.
June 7. 12	..	..	..	..	Overcast; strong wind.
13	..	..	..	..	Overcast.
14	..	..	..	..	Generally overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Cumulus and cirro-cumulus near the horizon.
17	..	..	..	..	Cumulus and cirro-cumulus near the horizon.
18	..	..	..	..	Cumulus and cirro-cumulus all over the sky.
19	..	..	..	..	Generally cloudy; cirro-cumulus.
20	..	..	..	..	Principally cloudless.
21	..	..	..	..	Cumulus in all directions.
22	..	..	..	..	Cumulus clouds cover about half the sky.
23	..	..	..	..	Cumulus clouds cover about half the sky; a very strong wind has prevailed throughout the night.
June 8. 0	..	..	..	..	Light clouds here and there; strong wind.
1	..	..	..	..	Cumulus covers about half the sky; strong wind.
2	..	..	..	..	Cumulus covers about half the sky.
3	..	..	..	..	Generally cloudy; the wind has lulled.
4	..	..	..	..	Overcast; heavy rain falling.
5	60	40	..	..	Overcast; frequent showers of rain.
6	..	..	..	..	Cumulus and cirro-cumulus cover about half the sky.
7	100	40	..	..	Generally overcast; rain falling.
8	..	..	..	..	Partially cloudy.

May 31 and June 7. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs		
June 8. 9	29·632	52·9	52·3	51·7	·384	4·3	0·1	96	534	SW	0·0	0	8
10	29·631	52·0	51·0	50·0	·361	4·1	0·3	93	536	SW	0·0	0	8
11	29·625	51·5	50·8	50·1	·362	4·1	0·3	94	536	SW	0·0	0	9
June 14. 12	29·848	47·0	46·8	46·7	·319	3·7	0·1	99	545	E	0·0	0	0
13	29·842	47·8	47·4	46·9	·322	3·6	0·2	96	544	ENE	0·0	0	0
14	29·830	47·6	47·2	46·7	·319	3·7	0·2	96	544	ENE	0·0	0	0
15	29·807	49·6	48·2	46·7	·319	3·7	0·4	90	542	ENE	0·0	0	4
16	29·803	49·2	47·3	45·2	·302	3·5	0·5	87	542	ESE	0·0	0	4
17	29·813	49·3	47·4	45·3	·303	3·5	0·6	87	542	ESE	0·0	0	4
18	29·809	55·6	51·7	48·0	·335	3·7	1·2	76	535	ESE	1·0	0	6
19	29·810	58·5	53·0	48·1	·336	3·8	1·7	68	532	ESE	2·0	0	8
20	29·803	60·2	54·2	48·9	·346	3·9	1·9	65	530	ESE	2·0	0	8
21	29·813	61·7	53·7	46·7	·319	3·5	2·6	58	529	ESE	2·0	1	0
22	29·809	64·3	54·4	46·2	·313	3·5	3·2	52	527	E	2·0	0	0
23	29·807	65·3	54·5	45·7	·307	3·4	3·5	48	526	E	2·0	0	0
June 15. 0	29·801	66·0	55·3	46·6	·318	3·5	3·5	49	525	E	2·5	0	0
1	29·801	64·7	54·4	45·9	·309	3·4	3·3	51	526	E	2·0	0	0
2	29·800	65·3	54·9	46·4	·316	3·5	3·4	50	525	E	2·0	0	0
3	29·795	64·9	55·2	47·3	·327	3·6	3·2	53	526	E	2·0	2	0
4	29·794	64·2	55·8	48·9	·346	3·8	2·9	58	526	E	2·0	1	0
5	29·786	61·2	53·5	46·8	·321	3·6	2·5	59	529	E	2·0	0	0
6	29·791	59·2	53·6	48·6	·343	3·9	1·7	68	531	E	2·0	0	0
7	29·801	57·0	51·3	46·1	·312	3·5	1·7	67	534	E	0·0	0	0
8	29·805	55·1	50·6	46·2	·313	3·6	1·3	73	536	E	0·0	0	0
9	29·815	53·4	50·3	47·2	·325	3·7	0·9	80	538	ENE	0·0	1	0
10	29·815	50·6	47·7	44·7	·296	3·3	0·8	80	542	ENE	0·0	0	0
11	29·813	49·2	46·5	43·6	·284	3·3	0·8	81	542	ENE	0·0	0	0
June 21. 12	29·899	61·0	60·5	60·1	·520	5·8	0·2	97	530	N	0·0	0	8
13	29·898	60·6	60·3	60·0	·518	5·8	0·2	97	530	N	0·0	10	8
14	29·906	58·9	58·8	58·7	·494	5·5	0·1	99	533	NNE	0·0	10	9
15	29·913	57·2	57·2	57·2	·469	5·2	0·0	100	534	N	0·0	10	10
16	29·921	55·7	55·7	55·7	·444	5·1	0·0	100	536	NNE	0·0	10	10
17	29·944	55·4	55·3	55·2	·436	5·0	0·0	100	537	NNE	0·0	10	10
18	29·959	55·8	55·5	55·3	·437	5·0	0·1	98	537	NNE	0·0	10	10
19	29·978	56·3	55·7	55·1	·434	4·8	0·2	96	537	NNW	0·0	10	8
20	29·986	57·1	56·2	55·4	·439	4·9	0·3	92	536	N	0·0	10	8
21	29·996	58·2	57·0	55·9	·447	5·0	0·5	92	535	N	0·0	10	10
22	30·001	59·3	58·0	56·9	·464	5·1	0·5	92	534	N	0·0	10	2
23	30·005	59·8	58·1	56·7	·461	5·0	0·7	89	533	N	0·0	10	0
June 22. 0	30·015	61·9	59·4	57·3	·470	5·2	1·0	85	531	N	0·0	10	0
1	30·009	64·7	61·2	58·1	·483	5·3	1·4	79	528	N	0·0	10	0
2	29·999	68·6	63·6	59·8	·514	5·6	2·0	73	524	N	0·0	6	0
3	30·001	70·8	65·2	60·9	·535	5·8	2·4	71	522	N	0·0	0	0
4	30·004	71·6	65·0	60·0	·518	5·6	2·8	67	521	N	0·0	0	0
5	30·003	72·2	65·5	60·5	·528	5·8	2·8	66	521	NNE	0·0	4	0
6	30·007	69·1	64·8	61·4	·543	6·0	1·0	77	524	NNE	0·0	0	0
7	30·008	67·0	64·0	61·6	·548	6·0	1·3	83	526	NNE	0.0	0	0
8	30·016	63·7	62·5	61·5	·546	6·1	0·5	93	529	NNE	0·0	0	0
9	30·027	61·5	60·7	60·0	·518	5·9	0·3	95	532	SSW	0·0	0	2
10	30·030	61·2	60·5	59·9	·516	5·8	0·3	96	532	SSW	0·0	0	2
11	30·032	60·7	60·0	59·4	·507	5·7	0·3	96	533	SSW	0·0	0	2
June 28. 12	29·618	64·2	62·2	60·4	·526	5·9	0·8	88	522	WSW	0·0	3	0
13	29·623	64·4	59·6	55·6	·443	4·9	2·0	73	522	WSW	0·0	4	0
14	29·593	60·1	58·3	56·7	·461	5·2	0·6	89	526	WSW	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
June. 8 9	..	..	..	..	Cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
June 14. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cloudless.
21	..	..	..	..	Generally cloudless; cirrus in the S.; high wind.
22	..	..	..	..	Cloudless; high wind.
23	..	..	..	..	Cloudless; high wind.
June 15. 0	..	..	..	..	Cloudless; high wind.
1	..	..	..	..	Cloudless; high wind.
2	..	..	..	..	Cloudless; high wind.
3	..	..	..	..	Cirro-cumulus here and there; high wind.
4	..	..	..	..	Cirro-cumulus here and there; high wind.
5	..	..	..	..	Cloudless; high wind.
6	..	..	..	..	Cloudless; high wind.
7	..	..	..	..	Cloudless; high wind.
8	..	..	..	..	Cloudless.
9	..	..	..	..	Generally cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
June 21. 12	..	..	..	..	Cloudless; slight haze.
13	..	..	..	..	Overcast.
14	..	..	..	..	Overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Overcast.
17	..	..	..	..	Overcast.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..		Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Overcast.
June 22. 0	..	..	..	..	Overcast.
1	..	..	..	..	Overcast.
2	..	..	..	..	Cumulus and cirro-cumulus cover rather more than half the sky.
3	..	..	..	..	Cloudless; haze.
4	..	..	..	..	Cloudless; haze.
5	.	..	..	..	Partially cloudy.
6	..	..	..	..	Cloudless; haze.
7	..	..	..	..	Cloudless.
8	..	..	..	..	Cloudless.
9	..	..	..	..	Cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
June 28. 12	..	..	..	..	Partially cloudy; stratus in the N.
13	..	..	..	..	Cirrus and cirro-cumulus; high wind.
14	..	..	..	..	Overcast; high wind.

June 14. The insulating lamp on the Electrometer pole was not burning.
June 15 to 28. The Electrical apparatus was under adjustment.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr		gr		lbs.		
June 28. 15	29·588	59·3	57·5	56·0	·449	5·0	0·7	89	527	WSW	0·0	10	0
16	29·584	59·3	57·2	55·4	·439	4·9	0·7	87	527	WSW	0·0	9	0
17	29·580	59·6	57·2	55·1	·434	4·9	0·8	85	528	WSW	0·0	7	0
18	29·589	60·2	57·4	54·9	·431	4·9	1·0	83	526	WSW	0·0	8	2
19	29·592	63·2	59·6	56·5	·457	5·1	1·4	79	523	WSW	0·0	3	1
20	29·592	65·7	61·4	57·8	·479	5·3	1·7	76	520	WSW	0·0	10	0
21	29·586	66·5	62·4	59·1	·501	5·5	1·6	78	519	WSW	0·0	10	3
22	29·584	67·8	63·2	59·6	·511	5·5	1·9	75	518	WSW	0·0	10	0
23	29·577	69·9	64·3	60·0	·518	5·6	2·4	71	516	WSW	2·0	10	0
June 29. 0	29·568	73·7	66·2	60·7	·531	5·8	3·3	64	512	WSW	2·0	7	0
1	29·551	75·4	67·2	61·4	·545	5·9	3·7	62	510	WSW	1·5	10	0
2	29·549	70·8	64·2	59·2	·503	5·4	2·8	67	514	WSW	1·5	10	0
3	29·541	73·7	66·0	60·3	·524	5·7	2·6	63	511	WSW	2·0	9	0
4	29·529	71·2	64·5	59·5	·509	5·6	2·8	66	513	WSW	1·5	2	0
5	29·519	68·6	62·5	57·7	·477	5·3	2·4	68	516	WSW	1·5	6	0
6	29·515	67·6	61·8	57·2	·469	5·1	2·3	69	517	WSW	1·5	2	0
7	29·524	65·1	60·7	57·1	·467	5·2	1·6	77	519	SSW	0·0	8	0
8	29·512	62·0	59·4	57·1	·467	5·2	1·0	84	523	SSW	0·0	1	0
9	29·501	60·7	58·5	56·6	·459	5·2	0·9	87	524	S	0·0	10	0
10	29·506	60·9	58·0	55·5	·441	4·9	1·1	83	524	SSW	0·0	10	0
11	29·496	59·4	57·5	55·9	·447	5·1	0·7	89	524	SSW	0·0	10	0
July 5. 12	29·476	59·1	58·0	57·0	·465	5·2	0·4	93	525	SSW	0·0	1	0
13	29·474	59·0	57·8	56·7	·461	5·1	0·5	93	525	SSW	0·0	10	0
14	29·469	58·7	57·7	56·8	·462	5·2	0·5	93	525	SW	0·0	10	3
15	29·470	58·2	57·4	56·7	·461	5·2	0·4	94	525	SW	0·0	10	6
16	29·485	58·0	57·1	56·3	·454	5·0	0·4	94	526	SSW	0·0	10	7
17	29·494	58·2	57·2	56·3	·454	5·0	0·4	93	526	WSW	0·0	10	8
18	29·501	59·3	57·7	56·3	·454	5·1	0·6	90	525	WSW	0·0	10	9
19	29·504	60·5	58·2	56·2	·453	5·1	0·8	86	524	WSW	0·0	10	10
20	29·514	64·0	59·7	56·1	·451	5·0	1·6	76	521	WSW	0·0	5	10
21	29·531	67·9	61·4	56·3	·454	4·9	2·6	65	517	WNW	1·0	8	10
22	29·541	64·2	57·5	51·9	·386	4·3	2·3	64	521			9	0
23	29·554	66·1	58·4	52·1	·389	4·3	2·7	61	520			8	0
July 6. 0	29·553	67·6	58·1	50·6	·369	4·0	3·4	54	518			7	0
1	29·557	66·1	57·2	50·0	·361	4·0	3·1	55	520			9	0
2	29·564	65·7	57·0	49·9	·360	3·9	3·0	57	520			10	0
3	29·564	66·6	58·0	51·1	·375	4·1	3·0	58	520			10	0
4	29·557	64·3	58·8	54·2	·421	4·6	2·0	69	522			5	0
5	29·572	55·5	54·0	52·5	·396	4·4	0·5	90	531			9	0
6	29·564	55·8	53·5	51·4	·379	4·2	0·7	86	531			7	0
7	29·566	53·9	50·3	46·8	·321	3·6	1·1	77	533			8	0
8	29·577	51·6	50·0	48·4	·340	3·8	0·0	89	535			10	0
9	29·588	49·5	49·3	49·1	·349	4·0	0·1	98	538			6	0
10	29·603	50·0	49·6	49·1	·349	4·0	0·1	97	537			9	0
11	29·606	50·5	50·2	49·9	·360	4·1	0·1	98	537			3	0
July 12. 12	30·175	59·8	57·6	55·7	·444	4·9	0·8	86	537	SW	0·0	0	0
13	30·167	59·4	57·5	55·8	·446	4·9	0·7	89	537	SW	0·0	0	0
14	30·170	58·2	56·6	55·1	·434	4·9	0·6	83	539	SW	0·0	0	0
15	30·173	57·8	56·0	54·4	·424	4·6	0·7	88	539	SSW	0·0	0	0
16	30·174	56·8	55·2	53·8	·415	4·6	0·5	89	540	SSW	0·0	0	3
17	30·177	56·6	55·0	53·6	·412	4·6	0·5	89	540	SW	0·0	0	3
18	30·196	61·2	58·0	55·2	·436	4·9	1·2	81	536	SW	0·0	0	3
19	30·195	63·2	60·3	58·0	·482	4·1	1·2	83	533	SW	0·0	0	3
20	30·198	70·1	62·4	56·4	·456	4·0	3·0	60	527	WSW	0·0	0	2
21	30·186	74·9	65·0	57·9	·480	4·2	4·2	55	521	WSW	0·0	0	2

July 5d. 22h. to July 6d. 11h. The Anemometer was under repair.

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
June 28. 15	..	..	..	..	Overcast ; high wind.
16	..	..	..	..	Partially overcast.
17	..	..	..	..	Partially overcast.
18	..	..	..	..	High cirrus.
19	..	..	..	..	Cirrus here and there.
20	..	..	..	..	Overcast ; high wind.
21	..	..	..	..	Overcast ; high wind.
22	..	..	..	..	Overcast ; high wind.
23	..	..	..	..	Overcast ; high wind.
June 29. 0	..	..	..	..	Cumulus and cirro-cumulus cover a large portion of the sky ; strong wind.
1	..	..	..	..	Overcast ; strong wind.
2	..	..	..	..	Overcast ; strong wind.
3	..	..	..	..	Generally overcast ; strong wind.
4	..	..	..	..	Generally cloudless ; strong wind.
5	..	..	..	..	Partially cloudy ; strong wind.
6	..	..	..	..	Cirro-cumulus here and there.
7	..	..	..	..	Generally overcast.
8	..	..	..	..	Cirrus near the horizon.
9	..	..	..	..	Overcast.
10	..	..	..	..	Overcast.
11	..	..	..	..	Overcast.
July 5. 12	0	0	..	..	Generally cloudless.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	5	5	..	..	Cumulus and cirro-cumulus in many directions.
21	20	20	..	..	Generally overcast ; strong wind.
22	5	5	..	..	Generally overcast ; strong wind.
23	0	0	..	..	Generally overcast ; strong wind.
July 6. 0	0	0	..	..	Partially overcast ; strong wind.
1	0	0	..	..	Generally overcast ; very high wind.
2	0	0	..	..	Overcast.
3	0	0	..	..	Overcast.
4	Out of range	40—	..	3 in 1″ at 0·02	Cumulus and cirro-cumulus ; rain falling ; high wind.
5	Out of range	40—	..	..	Stratus and cumulo-stratus ; heavy rain falling ; high wind.
6	..	..	..	..	Partially overcast ; strong wind.
7	..	..	..	..	Partially overcast ; strong wind.
8	..	..	..	..	Overcast ; heavy rain fell at $7^h.30^m$.
9	..	..	..	..	Partially cloudy ; strong breeze.
10	..	..	..	..	Generally overcast ; at $9^h.\ 10^m$ it was cloudless.
11	..	..	..	..	Clouds near the horizon.
July 12. 12	20	20	..	..	Cloudless.
13	10	10	..	..	Cloudless.
14	10	10	..	..	Cloudless.
15	5	5	..	..	Cloudless.
16	0	0	..	..	Cloudless.
17	0	0	..	..	Cloudless.
18	5	5	..	..	Cloudless.
19	5	5	..	..	Cloudless.
20	5	5	..	..	Cloudless.
21	0	0	..	..	Cloudless.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lb.		
July 12. 22	30·185	76·9	65·6	57·7	·477	5·2	4·8	51	520	WSW	0·0	0	0
23	30·184	78·5	66.0	57·4	·472	5·0	5·4	48	518	WSW	0·0	0	0
July 13. 0	30·182	81·0	67·8	58·9	·495	5·3	6·0	46	516	WSW	0·0	2	0
1	30·176	81·2	67·8	58·8	·493	5·3	6·1	46	516	WSW	0·0	3	0
2	30·171	84·0	70·1	61·0	·537	5·6	6·8	45	512	WSW	0·0	4	0
3	30·170	78·5	67·2	59·4	·507	5·5	4·9	52	518	WSW	0·0	5	0
4	30·156	80·0	68·2	60·1	·520	5·6	5·6	51	516	WSW	0·0	5	0
5	30·152	77·0	66·6	59·3	·505	5·5	4·5	55	519	WSW	0·0	5	0
6	30·153	73·9	65·2	58·9	·498	5·4	3·7	60	522	WSW	0·0	3	0
7	30·154	73·0	65·0	59·1	·501	5·4	3·4	62	523	NW	0·0	5	0
8	30·159	69·3	63·5	57·0	·500	5·4	2·4	69	534	NW	0·0	6	0
9	30·168	66·8	62·0	58·2	·485	5·3	1·9	74	538	NE	0·0	5	0
10	30·175	65·0	60·6	57·0	·465	5·1	1·7	76	531	NE	0·0	0	0
11	30·174	62·7	59·5	56·7	·461	5·2	1·2	81	534	NE	0·0	0	0
July 19. 12	29·848	64·2	60·1	56·7	·461	5·1	1·6	76	526	SSE	0·0	0	3
13	29·842	62·0	59·1	56·6	·459	5·1	1·1	82	528	SSE	0·0	0	3
14	29·829	59·3	58·3	57·4	·472	5·2	0·4	94	531	SSE	0·0	0	4
15	29·806	58·5	57·9	57·4	·472	5·2	0·3	95	532	SSE	0·0	0	5
16	29·802	57·4	56·7	56·0	·449	4·9	0·3	95	533	SSE	0·0	0	5
17	29·815	60·7	59·7	58·8	·496	5·5	0·5	94	529	WSW	0·0	0	5
18	29·816	68·3	63·6	60·0	·518	5·7	1·9	75	522	WSW	0·0	0	6
19	29·821	67·0	63·4	60·5	·528	5·7	1·6	80	523	WNW	0·0	0	6
20	29·821	69·3	64·7	61·2	·541	5·9	1·9	76	521	WNW	0·0	0	6
21	29·832	75·0	68·0	63·0	·576	6·2	3·2	66	515	WNW	0·0	6	6
22	29·838	76·9	68·7	63·0	·576	6·3	3·7	63	513	WNW	0·0	7	0
23	29·838	77·5	68·0	61·4	·545	5·8	4·3	57	513	WNW	1·0	9	0
July 20. 0	29·837	79·6	69·2	62·0	·556	6·0	4·8	55	511	WNW	1·0	6	3
1	29·842	82·2	70·5	62·6	·568	6·0	5·7	52	508	WNW	0·0	1	4
2	29·841	83·4	71·5	63·6	·588	6·2	6·0	51	507	WNW	1·0	5	5
3	29·844	80·9	69·5	61·9	·554	5·9	5·4	51	510	WNW	1·5	6	5
4	29·839	79·5	68·8	61·5	·546	5·7	5·0	54	511	WNW	2·0	7	6
5	29·840	76·7	66·7	59·7	·512	5·5	4·4	55	514	WNW	0·8	7	6
6	29·838	74·9	65·8	59·3	·505	5·4	3·9	58	516	WNW	1·5	3	6
7	29·848	71·1	65·0	60·3	·524	5·7	2·6	69	519	WNW	2·0	8	5
8	29·861	67·5	62·0	57·6	·475	5·2	2·2	70	523	W	1·0	3	5
9	29·877	63·0	57·0	51·3	·386	4·3	2·1	67	528	W	1·5	5	5
10	29·888	60·9	56·0	51·8	·385	4·3	1·7	71	531	W	0·0	2	0
11	29·892	60·3	56·0	52·3	·393	4·4	1·5	74	531	W	0·0	8	0
July 26. 12	29·851	57·8	55·2	52·9	·401	4·5	0·9	83	533	SSW	0·0	0	0
13	29·841	57·7	55·2	53·0	·403	4·5	0·9	84	533	SSW	0·0	0	0
14	29·831	57·3	55·0	53·9	·416	4·5	0·8	85	533	SSW	0·0	0	0
15	29·828	56·6	54·6	52·7	·399	4·5	0·7	87	534	SSW	0·0	7	3
16	29·815	57·1	55·4	53·9	·416	4·6	0·6	89	533	SSW	0·0	10	4
17	29·805	57·6	56·2	55·0	·433	4·7	0·6	91	533	SSW	0·0	10	7
18	29·800	59·5	57·5	55·7	·444	5·0	0·7	88	530	SSW	0·0	9	10
19	29·803	62·2	59·0	56·2	·453	5·1	1·2	81	528	SSW	0·0	10	10
20	29·800	67·3	61·9	57·2	·469	5·2	2·1	70	522	SSW	0·0	4	10
21	29·789	68·3	62·5	58·0	·482	5·4	2·2	69	521	SSW	0·0	9	10
22	29·783	70·0	62·2	56·2	·453	5·0	3·0	62	519	SSW	0·0	10	0
23	29·783	71·1	63·2	57·2	·469	5·2	3·1	62	518	WSW	2·0	10	0
July 27. 0	29·777	72·3	65·3	60·0	·518	5·6	3·0	61	517	WSW	2·5	6	0
1	29·774	74·9	66·7	62·8	·533	5·7	3·7	61	514	WSW	2·5	10	0
2	29·761	75·6	67·0	60·8	·533	5·7	3·8	60	513	WSW	2·0	8	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
July 12. 22	5	5	..	..	Cloudless.
23	15	10	..	..	Cloudless.
July 13. 0	5	5	..	..	Cirrus and cirro-cumulus.
1	0	0	..	..	Cirrus and cirro-cumulus in many directions.
2	5	5	..	..	Cirrus and cirro-cumulus in many directions.
3	10	10	..	..	Cirrus and cirro-cumulus in many directions.
4	5	10	..	..	Cirrus and cirro-cumulus in many directions.
5	30	30	..	..	Cumulus and cirro-cumulus cover about half the sky.
6	40	40	..	..	Cumulus here and there.
7	60	40	..	..	Cumulus and cirro-stratus.
8	80	40	..	..	Stratus near the horizon ; cirro-cumulus in other directions ;
9	60	40	..	..	Cumulus and stratus in and about the zenith. [haze.
10	20	20	..	..	Cloudless.
11	0	0	..	..	Cloudless.
July 19. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	60	40	..	..	Cloudless.
17	Out of range	40	..	..	Cloudless.
18	Out of range	40	..	..	Cloudless.
19	Out of range	40	..	..	Cloudless.
20	Out of range	40	[illegible]	..	Cloudless.
21	10	10	..	..	Cumulus, cirro-cumulus, and stratus in many directions.
22	10	10	..	..	Cumulus, cirro-cumulus, and stratus in many directions.
23	5	5	..	..	Generally overcast ; cirro-cumulus.
July 20. 0	0	0	..	..	Cumulus and cirro-cumulus cover rather more than half the
1	5	5	..	..	Cirrus and cirro-cumulus scattered over the sky. [sky.
2	10	10	..	..	Cirrus and cirro-cumulus scattered over the sky.
3	5	5	..	..	Cirrus and cirro-cumulus scattered over the sky.
4	5	5	..	..	Cumulus, cirro-cumulus, and cirrus.
5	0	0	..	..	Cumulus, cirro-cumulus, and cirrus.
6	0	0	..	..	Cumulus, cirro-cumulus, and cirrus.
7	0	0	..	..	Partially overcast.
8	20	30	..	..	Stratus and fragments of cirrus ; strong breeze.
9	30	20	..	..	Stratus and fragments of cirrus ; strong breeze.
10	30	20	..	..	Generally clear ; cirro-stratus in the N.E.
11	40	30	..	..	Generally overcast.
July 26. 12	30	30	..	..	Cloudless.
13	25	30	..	..	Cloudless.
14	10	10	..	..	Cloudless.
15	10	10	..	..	Cirro-cumulus and cirro-stratus partially cover the sky.
16	5	5	..	..	Overcast.
17	3	5	..	..	Overcast ; occasional showers of rain.
18	12	10	..	..	Generally overcast.
19	30	30	..	..	Overcast.
20	25	20	..	..	Cirrus and cirro-stratus here and there.
21	40	40	..	..	Generally overcast ; cirro-cumulus.
22	3	5	..	..	Overcast.
23	0	0	..	..	Overcast.
July 27. 0	0	0	..	..	Cumulus and cirro-cumulus cover about half the sky.
1	0	0	..	..	Overcast ; strong breeze.
2	10	10	..	..	Generally overcast ; strong breeze.

1857. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d	h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
July 27.	3	29·760	73·7	66·2	60·6	·529	5·8	3·3	64	515	WSW	2·0	6	0
	4	29·746	71·6	64·8	59·7	·512	5·5	2·9	66	517	WSW	2·5	10	0
	5	29·744	71·1	67·7	60·0	·518	5·6	2·7	68	517	WSW	2·0	10	0
	6	29·734	70·1	64·5	60·4	·526	5·7	2·3	71	518	WSW	2·0	5	0
	7	29·735	67·6	63·0	59·4	·507	5·5	1·9	75	521	WSW	1·5	8	0
	8	29·748	65·7	62.5	59·8	·514	5·6	1·3	82	523	WSW	0·0	6	0
	9	29·752	65·7	62·5	59·8	·514	5·6	1·3	82	523	WSW	0·0	10	0
	10	29·742	64·7	62·0	59·7	·512	5·7	1·1	84	523	WSW	0·0	7	0
	11	29·747	64·7	62·0	59·7	·512	5·7	1·1	84	523	WSW	0·0	3	0
Aug. 2.	12	29·943	61·3	58·3	55·8	·446	4·9	1·1	82	531	SSW	0·0	0	0
	13	29·941	60·9	58·2	55·9	·447	5·0	1·0	84	531	SSW	0·0	0	0
	14	29·931	59·1	57·6	60·4	·526	5·1	0·5	91	533	SSW	0·0	0	0
	15	29·925	58·6	57·2	56·0	·449	4·9	0·5	91	533	SSW	0·0	0	0
	16	29·919	57·8	56·9	56·1	·451	4·9	0·4	94	534	SSW	0·0	0	0
	17	29·915	57·4	56·7	56·0	·449	4·9	0·3	95	535	SSW	0·0	0	0
	18	29·913	62·9	60·3	58·2	·485	5·3	1·1	84	529	SSW	0·0	0	0
	19	29·915	65·2	61·7	58·8	·496	5·5	1·3	81	526	SSW	0·0	0	0
	20	29·908	70·3	63·1	57·6	·475	5·2	2·9	64	521	SSW	0·0	7	3
	21	29·894	75·9	66·0	59·0	·500	5·4	4·3	55	515	SSW	0·0	0	3
	22	29·887	77·7	68·0	61·3	·543	5·8	4·4	57	513	SSW	0·0	5	0
	23	29·874	82·9	70·5	62·2	·560	5·9	6·1	50	508	SSW	1·0	2	0
Aug. 3.	0	29·884	75·9	66·0	59·0	·500	5·4	4·3	55	515	SSW	1·0	5	0
	1	29·832	85·7	70·5	60·6	·529	5·6	7·5	43	505	SSW	0·0	1	0
	2	29·810	86·9	70·0	59·1	·501	5·3	8·3	38	504	SSW	0·0	1	0
	3	29·803	86·2	70·0	59·5	·509	5·4	7·9	40	503	SSW	0·0	0	0
	4	29·778	85·3	69·2	58·6	·492	5·2	7·7	40	505	SSW	0·0	1	0
	5	29·768	82·6	69·0	59·9	·516	5·5	6·4	46	507	SSW	0·0	0	0
	6	29·769	80·9	68·6	60·3	·524	5·6	5·7	49	508	SSW	0·0	0	0
	7	29·775	76·5	67·6	61·3	·543	5·8	4·0	60	512	SSW	0·0	1	0
	8	29·779	75·4	67·0	61·0	·537	5·8	3·8	61	514	SSW	0·0	8	0
	9	29·778	74·7	66·0	59·7	·512	5·5	3·8	59	513	SSW	0·0	9	0
	10	29·774	70·9	64·4	59·3	·505	5·5	2·8	67	516	SSW	0·0	3	0
	11	29·769	67·9	63·5	60·1	·520	5·6	1·9	76	519	SSW	0·0	0	0
Aug. 9.	12	29·829	53·0	52·8	52·6	·397	4·4	0·1	99	538	SW	0·0	0	0
	13	29·841	52·9	52·7	52·5	·396	4·4	0·1	99	538	SW	0·0	0	0
	14	29·851	52·7	52·5	52·3	·393	4·4	0·1	99	539	SW	0·0	0	0
	15	29·859	52·0	51·9	51·8	·385	4·4	0·1	99	540	SW	0·0	0	0
	16	29·876	51·8	51·8	51·8	·385	4·3	0·0	100	540	SW	0·0	0	0
	17	29·887	53·0	53·0	53·0	·403	4·5	0·0	100	539	SW	0·0	0	0
	18	29·899	54·2	54·2	54·2	·421	4·7	0·0	100	538	SW	0·0	0	0
	19	29·917	55·2	54·6	53·9	·416	4·7	0·5	95	537	SW	0·0	0	0
	20	29·920	57·6	56·3	55·2	·436	4·8	0·5	91	535	SW	0·0	0	0
	21	29·939	62·2	59·5	57·1	·467	5·3	1·0	84	530	W	0·0	0	0
	22	29·939	66·6	62·1	58·5	·491	5·4	1·8	75	525	NNE	0·0	0	0
	23	29·949	70·4	63·0	57·3	·470	5·2	3·0	63	522	NNE	0·0	0	0
Aug. 10.	0	29·948	71·1	64·0	58·6	·492	5·4	2·9	65	521	NNE	0·0	3	0
	1	29·953	70·6	62·6	56·5	·457	5·0	3·1	61	522	NNE	0·0	7	0
	2	29·954	77·0	66·0	58·3	·487	5·3	4·7	53	515	NNE	0·0	5	0
	3	29·951	78·1	67·0	59·3	·505	5·5	4·8	53	514	N	0·0	1	0
	4	29·947	76·2	65·6	58·1	·483	5·3	4·5	53	516	NNE	0·0	3	0
	5	29·941	72·5	63·5	56·7	·461	5·1	3·5	57	520	N	0·0	5	0
	6	29·947	70·6	63·0	57·2	·469	5·1	3·0	63	522	N	0·0	6	0
	7	29·959	67·1	60·8	55·7	·444	4·9	2·4	67	526	N	0·0	10	0
	8	29·969	66·2	60·5	55·9	·447	4·9	2·1	69	527	N	0·0	10	0
	9	29·986	64·7	60·6	57·2	·469	5·2	1·5	77	528	NNW	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
July 27. 3	10	10	..	..	Cirro-cumulus covers about half the sky ; high wind.
4	25	30	..	..	Overcast ; high wind.
5	20	20	..	..	Overcast ; high wind.
6	30	30	..	..	Cirro-cumulus here and there ; high wind.
7	80	40	..	..	Partially cloudy ; strong wind.
8	50	40	..	..	Partially cloudy.
9	50	40	..	..	Overcast.
10	30	30	..	..	Partially cloudy.
11	20	30	..	..	Cirro-stratus in several directions.
Aug. 2. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	0	0	..	..	Cloudless.
17	0	0	..	..	Cloudless.
18	0	0	..	..	Cloudless.
19	0	0	..	..	Cloudless.
20	5	10	..	..	Cirro-cumulus in many directions.
21	0	0	..	..	Cloudless.
22	0	0	..	..	Partially cloudy ; cirro-cumulus.
23	0	0	..	..	Partially cloudy ; cirro-cumulus.
Aug. 3. 0	0	0	..	..	Partially cloudy.
1	20	30	..	..	Nearly cloudless
2	30	40	..	..	Nearly cloudless.
3	10	20	..	..	Cloudless.
4	20	30	..	..	Light clouds here and there.
5	20	30	..	..	Cloudless.
6	20	30	..	..	Cloudless.
7	20	30	..	..	Nearly cloudless.
8	10	20	..	..	Generally cloudy.
9	20	20	..	..	Generally cloudy.
10	20	30	..	..	Cirrus here and there.
11	20	30	..	..	Cloudless.
Aug. 9. 12	10	10	..	..	Cloudless ; lunar halo.
13	20	20	..	..	Cloudless.
14	20	20	..	..	Cloudless.
15	20	20	..	..	Cloudless.
16	10	10	..	..	Cloudless.
17	20	20	..	..	Cloudless ; fog.
18	80	40	..	..	Cloudless ; fog.
19	80	40	..	..	Cloudless ; fog.
20	Out of range	40	..	..	Cloudless ; fog.
21	Out of range	40	..	..	Cloudless ; slight haze.
22	Out of range	40	..	..	Cloudless ; haze.
23	60	40	..	..	Cloudless ; thin haze.
Aug. 10. 0	0	0	..	..	Cirrus here and there ; thick haze.
1	0	0	..	..	Partially cloudy ; haze.
2	10	20	..	..	Partially cloudy.
3	20	30	..	..	Nearly cloudless.
4	20	30	..	..	Generally clear ; cirrus and cirro-cumulus.
5	20	30	..	..	Generally clear ; cirrus and cirro-cumulus.
6	30	30	..	..	Partially cloudy.
7	60	40	..	..	Overcast.
8	30	20	..	..	Overcast.
9	30	30	..	..	Overcast.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foo of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°		in.	gr.	gr.		gr.		in.		
Aug. 10. 10	29·992	62·9	60·4	58·4	·489	5·3	1·0	85	530	NNW	0·0	10	0
11	29·997	61·9	60·0	58·4	·489	5·4	0·8	89	531	NNW	0·0	10	0
Aug. 16. 12	29·810	59·0	58·0	57·1	·467	5·2	0·4	94	531	NNE	0·0	0	0
13	29·811	59·6	58·5	57·5	·473	5·2	0·5	93	530	NNE	0·0	10	8
14	29·810	60·4	59·0	57·8	·479	5·3	0·6	92	529	NNE	0·0	10	8
15	29·805	60·3	58·6	57·1	·467	5·2	0·6	90	530	NNE	0·0	10	9
16	29·803	58·4	57·0	55·7	·444	4·9	0·6	91	531	NNE	0·0	4	10
17	29·813	57·3	53·5	50·0	·361	4·0	1·3	76	533	NNE	0·0	5	10
18	29·826	57·2	55·2	53·4	·409	4·5	0·7	87	534	NNE	0·0	7	10
19	29·830	59·4	56·4	53·8	·415	4·6	1·0	82	531	NNE	0·0	4	10
20	29·835	60·3	56·5	53·2	·406	4·5	1·3	77	531	NNE	0·0	7	10
21	29·837	60·2	55·9	52·1	·389	4·4	1·5	75	531	N	0·0	8	10
22	29·834	64·6	58·7	53·8	·415	4·6	2·1	67	526	N	0·0	5	0
23	29·832	67·7	60·8	55·3	·437	4·8	2·6	64	523	N	0·0	7	0
Aug. 17. 0	29·834	69·3	61·4	55·3	·437	4·8	3·1	61	521	N	0·0	3	0
1	29·836	71·2	62·6	56·2	·453	4·9	3·5	59	519	N	0·0	4	0
2	29·834	72·7	63·9	57·2	·469	5·2	3·5	58	518	N	0·0	6	0
3	29·839	68·8	61·8	56·3	·454	4·9	2·8	64	521	N	0·0	10	0
4	29·846	68·2	62·4	57·8	·479	5·4	2·2	69	522	N	0·0	7	0
5	29·849	66·4	61·5	57·6	·475	5·2	1·9	74	525	NNE	0·0	8	0
6	29·862	63·7	59·8	56·4	·456	5·0	1·5	78	527	NNE	0·0	4	0
7	29·873	59·8	57·5	55·5	·441	4·8	0·9	86	531	NNE	0·0	0	0
8	29·892	57·3	55·5	53·9	·416	4·6	0·6	88	535	NNE	0·0	0	0
9	29·893	57·1	55·3	53·7	·413	4·6	0·6	88	535	NNE	0·0	0	0
10	29·905	54·9	54·0	53·1	·404	4·5	0·4	94	537	NNE	0·0	0	0
11	29·907	53·9	53·2	52·5	·396	4·5	0·2	95	538	NNE	0·0	0	0
Aug. 23. 12	29·622	64·5	63·0	61·8	·552	6·1	0·6	91	522	E	0·0	0	0
13	29·614	65·1	63·4	62·1	·558	6·1	0·7	89	521	E	0·0	10	0
14	29·604	64·6	63·0	61·7	·550	6·1	0·6	90	521	E	0·0	0	0
15	29·606	64·6	63·1	61·9	·554	6·1	0·6	91	521	E	0·0	0	0
16	29·605	64·7	63·0	61·6	·548	6·1	0·7	90	521	E	0·0	6	0
17	29·605	64·7	62·9	61·3	·543	6·0	0·7	90	521	E	0·0	7	2
18	29·604	64·8	62·7	61·0	·537	5·9	0·8	88	521	E	0·0	5	4
19	29·606	70·0	67·5	65·6	·630	6·9	1·1	85	515	E	0·0	0	6
20	29·610	74·9	69·0	64·7	·611	6·6	2·8	70	511	E	0·0	0	9
21	29·623	78·3	71·3	66·4	·648	7·0	3·4	67	508	E	0·0	0	8
22	29·635	80·3	71·9	66·2	·644	6·9	4·2	61	506	ENE	0·0	1	0
23	29·631	82·6	72·8	66·3	·646	6·9	5·0	57	504	ENE	0·0	1	0
Aug. 24. 0	29·636	82·7	72·7	66·1	·641	6·8	5·1	57	504	ENE	0·0	1	0
1	29·638	83·8	73·8	67·2	·666	7·1	5·2	57	503	ENE	0·0	0	0
2	29·639	82·0	72·5	66·1	·641	6·9	4·8	59	505	ENE	0·0	0	0
3	29·642	82·5	72·3	65·5	·628	6·7	5·1	56	504	ESE	0·0	0	0
4	29·646	80·0	71·3	65·4	·626	6·7	4·3	60	507	ESE	0·0	0	0
5	29·647	78·2	70·3	64·8	·613	6·6	3·8	64	508	ESE	0·0	2	0
6	29·663	75·9	69·0	64·1	·598	6·4	3·3	66	511	ESE	0·0	7	0
7	29·680	70·8	66·8	63·7	·590	6·5	1·8	78	516	ESE	0·0	0	0
8	29·695	69·8	66·0	63·1	·578	6·3	1·6	79	517	SE	0·0	6	0
9	29·703	68·4	65·2	62·7	·570	6·2	1·4	82	519	SE	0·0	2	0
10	29·704	66·2	64·0	62·2	·560	6·2	0·9	87	521	SE	0·0	1	0
11	29·720	65·7	63·4	61·6	·548	6·0	0·9	86	522	SE	0·0	2	0
Aug. 30. 12	29·831	56·1	55·7	55·4	·439	4·9	0·1	96	535	ENE	0·0	0	0
13	29·816	55·2	54·8	54·3	·422	4·7	0·2	97	535	ENE	0·0	0	0
14	29·812	54·8	54·4	54·0	·418	4·6	0·2	96	536	ENE	0·0	0	0
15	29·807	54·4	54·0	53·6	·412	4·6	0·2	97	536	ENE	0·0	4	0
16	29·806	54·7	54·3	53·9	·416	4·7	0.2	97	536	ENE	0·0	9	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°	..	..	
Aug. 10. 10	20	10	..	..	Overcast ; rain frequently falls.
11	30	30	..	..	Overcast ; rain frequently falls.
Aug. 16. 12	Out of range	40	..	..	Cloudless.
13	Out of range	40	..	..	Overcast.
14	20	30	..	..	Overcast.
15	10	20	..	..	Overcast.
16	10	20	..	..	Cirrus here and there.
17	15	25	..	..	Cirro-cumulus here and there.
18	20	30	..	..	Partially cloudy.
19	30	40	..	..	Cirro-cumulus here and there.
20	20	30	..	..	Generally cloudy.
21	60	40	..	..	Generally cloudy.
22	20	20	..	..	Cumulus and cirro-cumulus here and there.
23	0	0	..	..	Cumulus and cirro-cumulus in many directions.
Aug. 17. 0	5	5	..	..	Cumulus in the S. ; elsewhere cloudless.
1	30	30	..	..	Partially cloudy.
2	20	20	..	..	Cumulus and cirro-cumulus in many directions.
3	30	30	..	..	Overcast.
4	20	20	..	..	Partially cloudy.
5	40	40	..	..	Partially cloudy.
6	60	40	..	..	Cirro-cumulus and cirrus.
7	80	40	..	..	Cloudless.
8	60	40	..	..	Cloudless.
9	Out of range	40	..	..	Cloudless.
10	Out of range	40	..	..	Cloudless.
11	Out of range	40	..	..	Cloudless.
Aug. 23. 12	60	40	..	..	Cloudless.
13	60	40	..	..	Overcast.
14	60	40	..	..	Cloudless.
15	80	40	..	..	Cloudless.
16	60	40	..	..	Partially cloudy.
17	60	40	..	..	Partially cloudy.
18	60	40	..	..	Partially cloudy ; cumulus and cirro-cumulus.
19	80	40	..	..	Cloudless.
20	80	40	..	..	Cloudless.
21	30	30	..	..	Cloudless.
22	20	20	..	..	Cirrus here and there.
23	15	20	..	..	Cirrus here and there.
Aug. 24. 0	20	20	..	..	Cirrus here and there.
1	20	20	..	..	Cloudless.
2	12	10	..	..	Cloudless.
3	20	20	..	..	Cloudless.
4	50	30	..	..	Cloudless.
5	80	40	..	..	Cirrus here and there.
6	60	30	..	..	Stratus, cirrus, and cirro-stratus.
7	30	30	..	..	Cirrus and cirro-stratus in the horizon.
8	25	30	..	..	Cirro-cumulus, cirro-stratus, and cirrus.
9	10	10	..	..	Partially cloudy.
10	30	40	..	..	Partially cloudy.
11	10	20	..	..	Partially cloudy.
Aug. 30. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Cloudless.
14	5	5	..	..	Cloudless.
15	5	5	..	..	Cirro-cumulus here and there.
16	0	0	..	..	Generally overcast.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity Sat.=100.	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Aug. 30. 17	29·809	54·4	54·2	54·0	·418	4·7	0·1	99	536	ENE	0·0	8	0
18	29·815	54·1	54·0	53·9	·416	4·7	0·1	99	537	ENE	0·0	6	0
19	29·823	58·0	56·5	55·2	·436	4·8	0·5	90	532	ENE	0·0	5	0
20	29·821	63·5	60·2	57·5	·473	5·2	1·3	79	527	ENE	0·0	4	0
21	29·816	70·9	64·2	58·2	·503	5·4	2·9	66	519	NE	0·0	1	0
22	29·812	72·9	64·7	58·7	·514	5·3	3·4	60	517	NNE	0·0	1	0
23	29·814	80·9	68·5	60·2	·522	5·6	5·7	49	509	NNE	0·0	7	0
Aug. 31. 0	29·808	80·9	68·2	60·2	·522	5·5	5·8	48	509	NNE	0·0	4	0
1	29·796	84·0	69·5	60·0	·518	5·5	6·9	44	506	NNE	0·0	7	0
2	29·800	80·9	68·0	59·3	·505	5·4	5·9	47	509	NNE	0·0	10	0
3	29·802	70·3	64·2	59·6	·511	5·5	2·6	69	519	W	0·0	10	1
4	29·820	68·6	65·0	62·1	·558	6·1	1·6	80	521	W	0·0	10	2
5	29·809	68·0	64·0	60·8	·533	5·8	1·7	78	521	NW	0·0	10	2
6	29·801	67·6	63·6	60·5	·528	5·7	1·7	78	522	WSW	0·0	8	2
7	29·810	66·4	62·6	59·6	·511	5·6	1·5	79	523	WSW	0·0	10	2
8	29·819	66·6	62·1	58·5	·491	5·4	1·8	75	523	WSW	0·0	10	2
9	29·837	64·7	61·6	59·0	·500	5·5	1·2	81	526	WSW	0·0	8	2
10	29·825	62·2	60·5	59·1	·501	5·5	0·7	90	528	WSW	0·0	2	2
11	29·836	61·1	60·0	59·0	·500	5·6	0·4	93	529	WSW	0·0	6	2
Sept. 6. 12	29·755	56·2	55·0	53·9	·416	4·7	0·4	92	533	S	0·0	0	3
13	29·748	55·9	55·2	54·6	·427	4·9	0·1	95	533	SW	0·0	0	3
14	29·744	55·8	55·0	54·3	·422	4·8	0·2	94	533	SW	0·0	0	3
15	29·743	54·0	54·0	54·0	·418	4·7	0·0	100	535	S	0·0	0	4
16	29·741	52·1	52·1	52·1	·389	4·4	0·0	100	537	S	0·0	0	4
17	29·745	53·2	53·2	53·2	·406	4·5	0·0	100	536	S	0·0	0	5
18	29·753	55·0	55·0	55·0	·433	4·9	0·0	100	534	SW	0·0	10	8
19	29·750	55·6	55·5	55·4	·439	5·0	0·1	99	532	SW	0·0	10	10
20	29·791	59·3	58·0	56·9	·464	5·1	0·5	92	530	WSW	0·0	10	10
21	29·760	63·8	61·3	59·2	·503	5·5	1·0	86	525	WSW	0·0	4	10
22	29·756	65·9	61·9	58·6	·492	5·5	1·5	78	523	WSW	0·0	10	0
23	29·750	68·0	62·5	58·2	·485	5·4	2·1	70	521	WSW	0·0	10	0
Sept. 7. 0	29·741	69·5	68·3	67·3	·668	7·3	0·6	93	518	WSW	0·0	6	2
1	29·731	72·5	65·4	60·0	·518	5·6	3·0	65	516	WSW	0·0	8	2
2	29·717	70·2	63·8	58·9	·498	5·4	2·7	67	518	WSW	0·0	5	3
3	29·711	70·4	63·5	58·2	·485	5·3	2·8	65	518	WSW	0·0	8	4
4	29·706	68·3	62·5	58·0	·482	5·4	2·2	69	520	WSW	0·0	9	5
5	29·706	65·6	61·5	58·1	·483	5·4	1·5	77	522	SSW	0·0	7	6
6	29·702	63·0	60·0	57·5	·473	5·2	1·2	82	525	SSW	0·0	7	6
7	29·697	60·6	58·2	56·1	·451	5·1	0·9	86	528	SSW	0·0	10	5
8	29·694	59·5	57·7	56·1	·451	5·0	0·7	89	529	SSW	0·0	7	7
9	29·692	58·5	57·2	56·0	·449	5·0	0·5	91	529	SSE	0·0	6	7
10	29·662	56·8	56·0	55·3	·437	5·2	0·3	94	531	SSE	0·0	10	0
11	29·647	57·6	56·2	55·0	·433	4·7	0·6	91	530	SE	0·0	9	0
Sept. 13. 12	29·859	55·9	55·0	54·2	·421	4·8	0·2	94	535	WSW	0·0	0	4
13	29·857	53·9	53·9	53·9	·416	4·7	0·0	100	538	WSW	0·0	0	5
14	29·863	55·4	54·2	53·0	·403	4·5	0·4	92	536	WSW	0·0	10	5
15	29·862	56·3	55·5	54·8	·430	4·8	0·3	94	535	WSW	0·0	10	6
16	29·865	56·4	55·5	54·7	·428	4·8	0·3	94	535	WSW	0·0	10	8
17	29·866	56·5	56·0	55·5	·441	4·9	0·2	96	535	WSW	0·0	10	9
18	29·875	56·5	56·0	55·5	·441	4·9	0·2	96	535	WSW	0·0	10	9
19	29·875	57·8	57·0	56·3	·454	5·0	0·3	95	533	SSW	0·0	10	10
20	29·887	59·1	58·0	57·0	·465	5·2	0·4	93	532	SSW	0·0	10	10
21	29·908	61·6	60·2	59·0	·500	5·6	0·5	91	530	SW	0·0	10	10
22	29·912	60·5	59·1	57·9	·480	5·3	0·6	92	531	SSE	0·0	10	2
23	29·910	61·2	59·5	58·1	·483	5·3	0·7	90	530	SSE	0·0	10	4

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Aug. 30. 17	0	0	..	..	Generally overcast.
18	0	0	..	..	Light cirrus and cirro-stratus in many directions.
19	12	10	..	..	Light cirrus and cirro-stratus in many directions.
20	40	40	..	..	Light cirrus and cirro-stratus in many directions.
21	80	40	..	..	Generally cloudless.
22	80	40	..	..	Cirro-cumulus and cirro-stratus here and there.
23	60	40	..	..	Partially cloudy.
Aug. 31. 0	60	40	..	..	Partially cloudy ; cirro-cumulus.
1	60	40	..	..	Partially cloudy.
2	50	40	..	..	Overcast.
3	Out of range	40 ; 40—	5° to A	Volley at 0·02	Overcast ; rain falls.
4	Out of range	40—	5° to A	Volley at 0·03	Overcast ; rain falling.
5	60	40	..	..	Overcast.
6	60	40	..	..	Generally overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	80	40	..	..	Generally overcast.
10	80	40	..	..	Generally clear.
11	60	40	..	..	Cirrus in many directions.
Sept. 6. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless ; fog.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..	..	Cirrus and cirro-cumulus here and there.
22	..	..	..	..	Overcast.
23	..	..	..	..	Overcast.
Sept. 7. 0	..	..	..	..	Cumulus and cirro-cumulus in many directions.
1	0	0	..	..	Generally overcast.
2	0	0	..	..	Partially cloudy.
3	0	0	..	..	Generally overcast ; cirro-cumulus.
4	0	0	..	..	Generally overcast ; dense cirro-cumulus and cumulus.
5	0	0	..	..	Stratus and cirro-stratus.
6	0	0	..	..	Stratus and cirro-stratus.
7	0	0	..	..	Overcast.
8	10	10	..	..	Partially cloudy.
9	20	20	..	..	Partially cloudy.
10	30	30	..	..	Overcast.
11	20	20	..	..	Generally overcast.
Sept. 13. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Overcast.
17	..	..	..	..	Overcast ; rain falling.
18	..	..	..	..	Overcast ; rain still continues.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast ; slight rain.
21	..	..	..	..	Overcast ; thin rain falling.
22	..	..	..	..	Overcast ; thin rain falling.
23	..	..	..	..	Overcast ; thin rain falling.

September 6 and 13. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Sept. 14. 0	29·919	63·4	61·8	60·4	·526	5·8	0·7	91	528	SSE	0·0	10	6
1	29·913	63·4	62·2	61·1	·539	6·0	0·6	93	528	SSE	0·0	10	6
2	29·915	63·5	62·5	61·8	·552	6·1	0·4	94	528	SSE	0·0	10	5
3	29·918	64·9	63·4	62·3	·562	6·2	0·6	90	526	SSE	0·0	10	6
4	29·924	65·3	63·5	62·2	·560	6·1	0·7	89	526	SSE	0·0	10	6
5	29·934	64·5	63·2	62·2	·560	6·2	0·5	92	527	SSE	0·0	10	6
6	29·937	62·7	61·8	60·9	·535	6·0	0·4	93	529	SSE	0·0	10	6
7	29·957	60·5	60·4	60·3	·524	5·9	0·1	99	532	SSE	0·0	9	6
8	29·969	60·3	60·0	59·8	·514	5·7	0·1	98	532	SSE	0·0	4	8
9	29·978	59·6	59·4	59·3	·505	5·6	0·1	99	533	SSE	0·0	0	8
10	29·986	58·8	58·5	58·3	·487	5·4	0·1	99	534	SSE	0·0	2	0
11	29·993	58·2	58·0	57·8	·479	5·4	0·1	99	535	SSE	0·0	0	0
Sept. 27. 12	29·693	58·3	57·0	55·8	·446	4·9	0·5	91	530	SSW	0·0	0	8
13	29·695	57·3	57·0	56·7	·461	4·7	0·5	91	531	S	0·0	0	8
14	29·686	56·8	56·8	56·8	·462	5·1	0·0	100	530	S	0·0	10	9
15	29·684	56·3	56·3	56·3	·454	5·0	0·0	100	531	S	0·0	10	9
16	29·680	56·8	56·8	56·8	·462	5·1	0·0	100	530	S	0·0	10	10
17	29·675	57·8	57·8	57·8	·479	5·4	0·0	100	529	S	0·0	10	10
18	29·672	59·5	59·0	58·6	·492	5·5	0·2	97	528	SSW	0·0	10	10
19	29·676	58·2	57·5	56·9	·464	5·1	0·3	95	530	WNW	0·0	10	10
20	29·682	58·1	57·5	57·0	·465	5·1	0·3	95	530	WSW	0·0	10	10
21	29·706	58·4	57·8	57·3	·470	5·1	0·3	95	530	WSW	0·0	10	0
22	29·698	58·8	58·2	57·7	·477	5·3	0·2	97	529	WSW	0·0	10	0
23	29·698	60·7	59·7	58·8	·496	5·5	0·3	94	527	WNW	0·0	10	0
Sept. 28. 0	29·707	60·1	59·1	58·2	·485	5·4	0·4	94	528	W	0·0	10	0
1	29·696	60·7	58·7	56·9	·464	5·3	0·7	88	528	W	0·0	10	0
2	29·704	60·7	58·7	56·9	·464	5·3	0·7	88	528	W	0·0	10	0
3	29·703	61·3	59·3	57·6	·474	5·2	0·8	88	526	W	0·0	10	0
4	29·728	60·7	58·6	56·7	·461	5·2	0·7	87	528	W	0·0	10	0
5	29·737	60·7	58·5	56·5	·457	5·2	0·8	87	528	WSW	0·0	8	0
6	29·752	60·4	58·2	56·2	·453	5·1	0·8	87	529	WNW	0·0	0	0
7	29·768	54·8	54·1	53·4	·409	4·6	0·3	95	535	W	0·0	0	0
8	29·791	53·1	52·8	52·5	·396	4·4	0·1	98	537	W	0·0	0	0
9	29·800	52·5	52·2	51·9	·386	4·4	0·1	98	538	W	0·0	0	0
10	29·812	50·4	50·3	50·2	·364	4·1	0·1	99	541	SW	0·0	0	0
11	29·826	50·0	50·0	50·0	·361	4·1	0·0	100	541	SW	0·0	0	0
Oct. 4. 12	29·507	48·4	47·8	47·1	·324	3·6	0·3	96	538	NNW	0·0	10	0
13	29·518	48·5	47·9	47·2	·325	3·6	0·3	96	538	NNW	0·0	10	0
14	29·508	48·0	47·5	46·9	·322	3·6	0·2	96	538	NNW	0·0	10	0
15	29·497	46·2	46·0	45·8	·308	3·6	0·1	99	540	NNW	0·0	10	0
16	29·507	44·6	44·6	44·6	·295	3·4	0·1	100	542	W	0·0	10	0
17	29·511	43·4	43·4	43·4	·281	3·3	0·0	100	543	W	0·0	10	0
18	29·511	42·6	42·6	42·6	·273	3·2	0·0	100	544	W	0·0	10	0
19	29·520	42·8	42·8	42·8	·275	3·3	0·0	100	544	W	0·0	9	0
20	29·537	43·3	43·3	43·3	·280	3·3	0·0	100	544	W	0·0	10	0
21	29·546	44·4	44·4	44·4	·293	3·4	0·0	100	543	WSW	0·0	0	0
22	29·542	51·6	49·3	47·0	·323	3·6	0·7	84	535	WSW	0·0	0	0
23	29·551	56·1	52·4	48·9	·346	3·9	1·1	77	530	WSW	0·0	0	0
Oct. 5. 0	29·548	58·5	52·0	46·2	·313	3·5	1·9	64	528	WSW	0·0	3	0
1	29·545	59·6	53·0	47·2	·325	3·6	2·1	64	526	WSW	0·0	5	0
2	29·539	58·2	52·7	47·8	·333	3·8	1·6	69	528	WSW	0·0	2	0
3	29·541	58·2	53·6	49·5	·353	3·9	1·5	68	528	WSW	0·0	1	0
4	29·548	54·5	51·2	48·1	·336	3·8	1·5	68	532	WSW	0·0	8	0
5	29·546	51·0	49·3	47·5	·329	3·7	0·5	88	535	WSW	0·0	1	0
6	29·558	49·9	48·2	46·4	·316	3·6	0·5	88	537	WSW	0·0	0	0
7	29·576	48·5	47·0	45·4	·304	3·5	0·5	89	539	WSW	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Sept. 14. 0	..	..	..	..	Overcast; thin rain falling.
1	..	..	..	..	Overcast; thin rain falling.
2	..	..	..	..	Overcast; thin rain falling.
3	..	..	..	..	Clear sky here and there; otherwise overcast.
4	..	..	..	..	Overcast; thin rain falling.
5	..	..	..	..	Overcast; thin rain.
6	..	..	..	..	Overcast; thin rain falling.
7	..	..	..	..	Nimbus in the N.W.; elsewhere stratus and cirro-stratus.
8	..	..	..	..	Partially cloudy.
9	..	..	..	..	Cloudless.
10	..	..	..	..	Clouds in the N.; cloudless elsewhere.
11	..	..	..	..	Cloudless.
Sept. 27. 12	5	5	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast; thin rain.
18	10	10	..	..	Overcast; rain falling.
19	20	20	..	..	Overcast; rain falling.
20	Out of range	40	..	..	Overcast; rain falling.
21	10	10	..	..	Overcast; rain falling.
22	0	0	..	..	Overcast; rain falling.
23	0	0	..	..	Overcast; rain falling.
Sept. 28. 0	0	0	..	..	Overcast; rain falling.
1	5	5	..	..	Overcast.
2	40	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	..	..	Generally cloudy; clear in the S. and S.W.
6	Out of range	40	..	..	Cloudless; fog.
7	40	40	..	..	Cloudless; fog.
8	Out of range	40	2° to B	..	Cloudless; fog.
9	Out of range	40	2° to B	..	Cloudless; fog.
10	Out of range	40	3° to B	..	Cloudless; fog.
11	Out of range	40	..	..	Cloudless; fog.
Oct. 4. 12	5	5	..	..	Overcast.
13	5	5	..	..	Overcast.
14	10	10	..	..	Overcast.
15	10	10	..	..	Overcast; lunar halo.
16	0	0	..	..	Overcast; lunar corona.
17	0	0	..	..	Overcast; lunar corona.
18	0	0	..	..	Overcast.
19	10	10	..	..	Clear in the S.W.; otherwise overcast.
20	Out of range	40	..	..	Overcast; fog and haze.
21	Out of range	40	..	..	Cloudless; fog and haze.
22	40	40	..	..	Cloudless; fog and haze.
23	80	40	..	..	Cloudless; fog and haze.
Oct. 5. 0	30	30	..	..	Cirrus and stratus here and there.
1	60	40	..	..	Cirro-cumulus cover about half the sky.
2	20	20	..	..	Generally cloudy.
3	80	40	..	..	Generally cloudy.
4	Out of range	40; 40—	20° to A	2 in 1"; 0·05	Generally overcast.
5	Out of range	40	..	..	Generally cloudless.
6	Out of range	40	..	..	Cloudless.
7	Out of range	40	..	..	Cloudless.

September 14. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
	in.	°	°	°	in.	gr.	gr.		gr.		lbs		
Oct. 5. 8	29·571	47·3	46·0	44·6	·295	3·3	0·4	91	540	WSW	0·0	0	0
9	29·567	47·1	45·8	44·5	·294	3·4	0·3	91	540	WSW	0·0	4	0
10	29·560	48·2	45·5	42·5	·272	3·1	0·8	81	540	WSW	0·0	4	0
11	29·554	47·5	46·0	44·4	·293	3·3	0·5	89	539	WSW	0·0	3	0
Oct. 11. 12	29·941	55·6	55·5	55·4	·439	5·0	0·1	99	537	WSW	0·0	10	0
13	29·949	55·5	55·5	55·5	·441	5·1	0·0	100	537	WSW	0·0	10	0
14	29·952	55·5	55·5	55·5	·441	5·1	0·0	100	537	WSW	0·0	10	0
15	29·955	55·7	55·5	55·4	·439	5·0	0·1	99	537	WSW	0·0	10	0
16	29·960	55·8	55·5	55·3	·437	5·0	0·1	98	537	WSW	0·0	10	0
17	29·961	55·4	55·3	55·2	·436	5·0	0·1	99	537	WSW	0·0	10	0
18	29·969	55·7	55·5	55·4	·439	5·0	0·1	99	537	WSW	0·0	10	0
19	29·990	56·0	55·5	55·0	·433	4·9	0·2	97	537	WSW	0·0	9	0
20	29·993	57·3	56·7	56·3	·454	5·0	0·3	96	536	WSW	0·0	9	0
21	30·002	61·7	59·4	57·5	·473	5·2	1·0	86	530	WSW	0·0	10	0
22	30·003	63·9	61·2	59·0	·500	5·5	1·1	85	529	SW	0·0	10	0
23	30·020	65·0	61·8	59·1	·501	5·5	1·2	82	528	SW	0·0	9	0
Oct. 12. 0	30·015	64·8	61·2	58·3	·487	5·3	1·5	79	528	SSW	0·0	10	3
1	30·015	63·9	60·7	58·1	·483	5·3	1·3	81	529	SSW	0·0	10	3
2	30·017	63·2	60·7	58·6	·492	5·4	1·0	85	530	SSW	0·0	10	4
3	30·018	62·4	60·3	58·6	·492	5·4	0·9	87	531	SSW	0·0	10	4
4	30·023	62·4	60·5	59·0	·500	5·5	0·8	89	531	SSW	0·0	10	2
5	30·029	61·4	59·6	58·1	·483	5·3	0·8	89	532	SSW	0·0	10	1
6	30·039	60·2	59·0	57·9	·480	5·4	0·5	93	533	SSW	0·0	9	0
7	30·041	58·0	57·3	55·8	·446	5·1	0·3	95	536	SSW	0·0	0	0
8	30·048	56·8	56·2	55·7	·444	4·9	0·3	96	537	SSW	0·0	0	0
9	30·058	56·4	56·0	55·6	·443	4·9	0·2	97	538	SSW	0·0	0	0
10	30·058	55·2	55·0	54·8	·430	4·9	0·1	99	540	SSW	0·0	0	0
11	30·053	55·0	54·7	54·3	·422	4·7	0·2	99	540	SSW	0·0	0	0
Oct. 18. 12	29·330	52·6	52·3	52·0	·388	4·4	0·1	98	529	SE	0·0	0	5
13	29·333	51·9	51·7	51·5	·381	4·3	0·1	99	530	SE	0·0	0	6
14	29·334	51·8	51·6	51·4	·379	4·3	0·1	99	530	SE	0·0	0	6
15	29·342	51·8	51·6	51·4	·379	4·3	0·1	99	530	SE	0·0	0	6
16	29·359	52·5	52·2	51·9	·386	4·4	0·1	98	530	SE	0·0	10	7
17	29·372	52·8	52·5	52·2	·391	4·4	0·1	98	530	SE	0·0	10	7
18	29·391	53·1	52·8	52·5	·396	4·4	0·1	98	530	SE	0·0	10	7
19	29·409	52·9	52·7	52·5	·396	4·4	0·1	99	530	ESE	0·0	10	8
20	29·438	53·4	53·2	53·0	·403	4·5	0·1	99	530	ESE	0·0	10	8
21	29·443	54·2	54·0	53·8	·413	4·7	0·1	99	530	ESE	0·0	10	6
22	29·458	55·8	55·5	55·3	·437	5·0	0·1	98	528	ESE	0·0	10	0
23	29·474	57·6	56·5	55·6	·443	4·9	0·5	92	527	ESE	0·0	10	0
Oct. 19. 0	29·471	60·7	58·8	57·0	·465	5·3	0·7	89	523	ESE	0·0	7	0
1	29·479	60·7	58·5	56·5	·457	5·4	0·5	93	523	ESE	0·0	8	0
2	29·491	60·7	57·5	54·8	·430	4·8	1·2	81	524	ESE	0·0	8	0
3	29·498	59·1	56·9	54·9	·431	4·9	0·8	87	526	ESE	0·0	6	0
4	29·537	59·3	56·8	54·8	·430	4·8	1·1	85	526	ESE	0·0	6	1
5	29·552	56·3	55·3	54·4	·424	4·7	0·3	93	529	ESE	0·0	4	2
6	29·583	52·9	52·0	51·1	·375	4·2	0·3	94	534	ESE	0·0	2	2
7	29·602	51·2	50·5	49·9	·360	4·0	0·4	93	536	ESE	0·0	0	2
8	29·627	50·1	49·7	49·2	·351	4·0	0·1	97	538	ESE	0·0	0	2
9	29·630	50·8	50·5	50·2	·364	4·1	0·1	98	537	ESE	0·0	10	2
10	29·641	50·5	50·5	50·5	·367	4·1	0·0	100	537	ESE	0·0	10	2
11	29·651	49·5	49·5	49·5	·355	4·0	0·0	100	539	ESE	0·0	0	2
Oct. 25. 12	29·752	48·0	48·0	48·0	·335	3·8	0·0	100	542	ESE	0·0	0	0
13	29·752	48·2	48·2	48·2	·338	3·8	0·0	100	542	ESE	0·0	0	0
14	29·749	48·0	48·0	48·0	·335	3·8	0·0	100	542	E	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Oct. 5. 8	Out of range	40	..	..	Cloudless; slight haze.
9	Out of range	40	..	..	Cirrus here and there.
10	80	40	..	..	Cirrus and stratus here and there.
11	80	40	..	..	Cirrus and stratus here and there.
Oct. 11. 12	60	40	..	..	Overcast; a very dense atmosphere.
13	60	40	..	..	Overcast; a very dense atmosphere.
14	80	40	..	..	Overcast; a very dense atmosphere.
15	60	40	..	..	Overcast; a very dense atmosphere.
16	60	40	..	..	Overcast; a very dense atmosphere.
17	80	40	..	..	Overcast; a very dense atmosphere; rain falling.
18	80	40	..	..	Overcast; a very dense atmosphere; rain falling.
19	80	40	..	..	Generally overcast.
20	80	40	..	..	Generally overcast.
21	20	20	..	..	Overcast.
22	30	30	..	..	Overcast.
23	30	30	..	..	Generally overcast.
Oct. 12. 0	30	30	..	..	Overcast.
1	20	20	..	..	Overcast.
2	40	40	..	..	Overcast.
3	20	20	..	..	Overcast.
4	60	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast.
6	80	40	..	..	Generally overcast; cirro-cumulus and cirro-stratus.
7	Out of range	40	..	..	Cloudless.
8	Out of range	40	..	..	Cloudless.
9	80	40	..	..	Cloudless.
10	80	40	..	..	Cloudless.
11	Out of range	40	..	..	Cloudless.
Oct. 18. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast; rain falls occasionally.
19	0	0	..	..	Overcast; rain falling.
20	0	0	..	..	Overcast; heavy rain falling.
21	0	0	..	..	Overcast; heavy rain falling.
22	0	0	..	..	Overcast; rain falls occasionally.
23	0	0	..	..	Overcast; thin rain falling.
Oct. 19. 0	0	0	..	..	Partially cloudy.
1	0	0	..	..	Generally cloudy.
2	0	0	..	..	Cumulus and cirro-cumulus in many directions.
3	30	30	..	..	Partially cloudy.
4	60	40	..	..	Partially cloudy.
5	80	40	..	..	Partially cloudy.
6	60	40	..	..	Generally clear.
7	80	40	..	..	Cloudless.
8	80	40	..	..	Cloudless.
9	80	40	..	..	Overcast; fog and haze.
10	80	40	..	..	Overcast.
11	80	40	..	..	Cloudless.
Oct. 25. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.

October 25. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Oct. 25. 15	29·748	48·0	48·0	48·0	·335	3·8	0·0	100	542	ENE	0·0	10	0
16	29·748	47·0	47·0	47·0	·323	3·7	0·0	100	543	ENE	0·0	10	0
17	29·749	46·2	46·2	46·2	·313	3·6	0·0	100	544	ENE	0·0	10	0
18	29·737	46·7	46·7	46·7	·319	3·6	0·0	100	544	ENE	0·0	10	0
19	29·722	47·0	47·0	47·0	·323	3·7	0·0	100	543	ENE	0·0	10	0
20	29·718	48·5	48·5	48·5	·342	3·8	0·0	100	541	S	0·0	10	0
21	29·719	52·1	52·1	52·1	·389	4·4	0·0	100	537	S	0·0	1	0
22	29·716	57·0	55·3	53·8	·415	4·6	0·6	85	532	S	0·0	3	0
23	29·704	60·0	56·8	54·0	·418	4·6	1·2	80	528	SE	0·0	1	0
Oct. 26. 0	29·698	62·0	56·7	52·1	·389	4·2	2·0	71	527	SE	0·0	3	0
1	29·675	60·0	55·3	51·2	·377	4·2	1·6	73	528	SSE	0·0	4	3
2	29·668	61·2	56·2	51·0	·374	4·3	1·7	72	527	SSE	0·0	6	4
3	29·668	57·6	53·5	49·8	·358	3·9	1·4	75	531	ESE	0·0	1	4
4	29·660	55·4	53·2	51·1	·375	4·2	0·7	86	533	ESE	0·0	4	4
5	29·656	52·9	52·0	51·1	·375	4·2	0·3	94	535	ESE	0·0	0	4
6	29·654	51·1	50·7	50·4	·366	4·1	0·1	97	537	ESE	0·0	1	4
7	29·652	50·3	50·1	49·9	·360	4·1	0·1	99	538	ESE	0·0	1	5
8	29·649	50·5	50·3	50·1	·362	4·1	0·1	99	538	ESE	0·0	10	3
9	29·648	49·5	49·5	49·5	·355	4·0	0·0	100	539	ESE	0·0	6	3
10	29·642	49·7	49·7	49·7	·357	4·0	0·0	100	539	ESE	0·0	10	3
11	29·627	48·5	48·5	48·5	·342	3·9	0·0	100	540	ESE	0·0	3	3
Nov. 1. 12	29·601	47·0	46·6	46·2	·313	3·3	0·5	97	541	SE	0·0	8	3
13	29·589	48·5	47·8	47·0	·323	3·6	0·3	95	539	SE	0·0	10	4
14	29·575	49·5	49·0	48·5	·342	3·9	0·2	96	537	SE	0·0	10	4
15	29·557	50·2	49·6	48·9	·346	3·9	0·2	96	536	SE	0·0	10	4
16	29·556	51·3	50·8	50·4	·366	4·1	0·1	97	535	SE	0·0	10	5
17	29·551	51·3	50·8	50·4	·366	4·1	0·1	97	535	SE	0·0	10	6
18	29·563	51·9	51·4	50·9	·373	4·2	0·2	97	534	SE	0·0	10	7
19	29·556	52·5	52·0	51·5	·381	4·3	0·2	96	534	SE	0·0	10	8
20	29·561	53·3	52·7	52·1	·389	4·4	0·2	96	533	SE	0·0	10	8
21	29·562	53·4	53·0	52·6	·397	4·5	0·1	97	535	SE	0·0	10	10
22	29·559	55·7	54·5	53·4	·409	4·6	0·4	92	530	SE	0·0	10	0
23	29·555	56·6	55·5	54·6	·427	4·7	0·4	92	529	S	0·0	10	0
Nov. 2. 0	29·538	57·8	55·5	53·5	·410	4·6	0·8	85	528	S	0·0	10	0
1	29·546	57·8	55·5	53·5	·410	4·6	0·8	85	528	S	0·0	10	0
2	29·543	58·3	56·0	53·9	·416	4·6	0·8	85	527	S	0·0	10	0
3	29·534	57·0	55·5	54·2	·421	4·7	0·5	90	528	S	0·0	10	0
4	29·547	56·4	55·0	53·7	·413	4·6	0·5	91	529	S	0·0	10	0
5	29·543	55·8	54·5	53·3	·407	4·6	0·4	91	530	S	0·0	10	0
6	29·567	55·5	54·6	53·7	·413	4·6	0·3	94	531	S	0·0	10	0
7	29·564	55·5	54·6	53·7	·413	4·6	0·3	94	531	S	0·0	10	0
8	29·563	56·1	55·2	54·4	·424	4·7	0·3	93	530	SSE	0·0	10	0
9	29·561	55·9	55·2	54·6	·427	4·9	0·1	95	528	SSE	0·0	7	0
10	29·561	56·5	55·5	54·6	·427	4·8	0·4	93	529	SSE	0·0	10	0
11	29·563	55·7	55·0	54·4	·424	4·8	0·1	95	530	SSE	0·0	10	0
Nov. 8. 12	30·205	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
13	30·202	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
14	30·200	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
15	30·199	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
16	30·195	49·5	49·0	48·5	·342	3·9	0·2	96	549	NNW	0·0	10	0
17	30·192	50·0	49·5	49·0	·348	4·0	0·1	97	548	NNW	0·0	10	0
18	30·191	50·5	50·5	50·5	·367	4·1	0·0	100	547	NNW	0·0	10	0
19	30·191	50·5	50·5	50·5	·367	4·1	0·0	100	547	NNW	0·0	10	0
20	30·201	51·0	51·0	51·0	·374	4·2	0·0	100	547	NNE	0·0	10	0
21	30·213	50·7	50·7	50·7	·370	4·2	0·0	100	548	NNE	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Oct. 25. 15	..	..	..	..	Thick fog.
16	..	..	..	..	Thick fog.
17	..	..	..	..	Thick fog.
18	..	..	..	..	Thick fog.
19	..	..	..	..	Thick fog.
20	..	..	..	..	Thick fog.
21	..	..	..	..	Generally clear; the fog has cleared off.
22	..	..	..	..	Cirrus and cirro-cumulus.
23	..	..	..	..	Cirrus and cirro-cumulus.
Oct. 26. 0	..	..	..	..	Cirrus and cirro-cumulus.
1	..	..	..	..	Cirrus and cirro-cumulus.
2	..	..	..	..	Cirrus and cirro-cumulus.
3	..	..	..	..	Cirro-stratus and cirro-cumulus near the horizon.
4	..	..	..	..	Cirro-cumulus and cirro-stratus all over the sky.
5	..	..	..	..	Cloudless.
6	..	..	..	..	Cirrus and cirro-stratus in the S.
7	..	..	..	..	Cirrus and cirro-stratus in the S.W. and E.
8	..	..	..	..	Overcast.
9	..	..	..	..	Partially cloudy.
10	..	..	..	..	Overcast; rain falls occasionally.
11	..	..	..	..	Stratus in the S.W.
Nov. 1. 12	30	30	..	..	Generally overcast; cirrus and cirro-cumulus.
13	10	10	..	..	Overcast.
14	10	10	..	..	Overcast.
15	10	10	..	..	Overcast.
16	0	0	..	..	Overcast; rain falling.
17	5	5	..	..	Overcast; rain falling.
18	5	5	..	..	Overcast.
19	10	10	..	..	Overcast.
20	10	10	..	..	Overcast.
21	20	20	..	..	Overcast; rain falling.
22	20	20	..	..	Overcast.
23	30	30	..	..	Overcast.
Nov. 2. 0	30	30	..	..	Overcast.
1	30	30	..	..	Overcast.
2	80	40	..	..	Overcast.
3	80	40	..	..	Overcast.
4	60	40	..	..	Overcast.
5	80	40	..	..	Overcast.
6	80	40	..	..	Overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	Out of range	40	..	..	Generally cloudy.
10	80	40	..	..	Overcast.
11	80	40	..	..	Overcast.
Nov. 8. 12	0	0	..	..	Overcast; fog.
13	0	0	..	..	Overcast; fog.
14	0	0	..	..	Overcast; fog.
15	0	0	..	..	Overcast; fog.
16	0	0	..	..	Overcast; fog.
17	0	0	..	..	Overcast; the fog is thicker.
18	0	0	..	..	Overcast; the fog is still thicker.
19	0	0	..	..	Overcast; objects are not visible at the distance of a few yards.
20	30	30	..	..	Overcast; very thick fog.
21	20	20	..	..	Overcast; thick fog.

October 25 and 26. The insulating lamp was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°	in.	gr.	gr		gr		lbs.		
Nov. 8. 22	30·220	51·1	50·0	48·9	·346	3·9	0·3	92	547	NNE	0·0	10	0
23	30·222	51·2	50·9	50·7	·370	4·2	0·1	98	547	NNE	0·0	10	0
Nov. 9. 0	30·212	52·0	50·5	49·0	·348	4·0	0·4	89	546	NE	0·0	10	0
1	30·208	52·1	51·4	50·7	·370	4·2	0·2	95	546	NE	0·0	10	0
2	30·209	51·7	50·8	50·2	·364	4·1	0·3	94	547	NE	0·0	10	0
3	30·211	51·4	50·5	49·6	·357	4·0	0·3	94	547	NE	0·0	10	0
4	30·215	50·7	50·2	49·7	·356	4·0	0·2	96	548	NE	0·0	10	0
5	30·212	50·4	50·1	49·8	·358	4·0	0·1	98	548	NE	0·0	10	0
6	30·216	50·5	50·2	49·9	·360	4·1	0·1	98	548	NE	0·0	10	0
7	30·225	50·7	50·5	50·3	·365	4·1	0·1	99	548	NE	0·0	10	0
8	30·234	50·6	50·4	50·2	·364	4·1	0·1	99	548	NE	0·0	10	0
9	30·244	49·8	49·6	49·4	·353	4·0	0·1	99	549	NE	0·0	10	0
10	30·246	49·8	49·5	49·2	·351	4·0	0·1	98	549	NE	0·0	10	0
11	30·249	49·7	49·5	49·3	·352	4·0	0·1	99	549	NE	0·0	10	0
Nov. 15. 12	30·090	43·5	42·7	41·7	·264	3·0	0·3	94	554	NE	0·0	10	5
13	30·072	42·6	41·8	40·9	·256	2·9	0·3	93	555	NE	0·0	0	5
14	30·069	41·4	41·0	40·5	·252	3·0	0·1	97	556	NE	0·0	0	6
15	30·057	41·6	41·0	40·3	·250	2·9	0·1	95	556	NE	0·0	2	6
16	30·038	42·0	41·4	40·7	·254	2·9	0·2	95	555	NE	0·0	10	7
17	30·040	42·3	41·7	41·1	·258	2·9	0·2	95	554	NE	0·0	2	7
18	30·046	43·0	42·6	42·1	·268	3·1	0·1	97	554	NE	0·0	10	7
19	30·052	43·9	43·6	43·1	·279	3·3	0·1	98	553	NE	0·0	10	7
20	30·050	44·0	43·6	43·1	·278	3·1	0·1	97	552	NE	0·0	10	7
21	30·052	44·8	44·5	44·1	·289	3·4	0·1	98	552	NE	0·0	10	8
22	30·064	45·8	45·5	45·2	·302	3·5	0·1	98	551	NE	0·0	10	0
23	30·066	47·0	46·0	44·9	·298	3·4	0·3	93	549	ENE	0·0	10	0
Nov. 16. 0	30·047	49·0	47·0	44·8	·297	3·4	0·6	86	547	ENE	0·0	10	0
1	30·039	51·3	48·6	45·9	·309	3·6	0·7	82	544	ENE	0·0	8	0
2	30·023	49·2	47·0	44·6	·295	3·4	0·6	85	546	ENE	0·0	10	0
3	30·016	48·8	46·5	44·1	·289	3·3	0·6	84	547	E	0·0	10	0
4	30·027	45·8	44·5	43·0	·277	3·1	0·4	90	550	ESE	0·0	0	0
5	30·042	43·5	43·0	42·4	·271	3·2	0·1	96	553	ESE	0·0	0	0
6	30·049	42·5	42·5	42·5	·272	3·2	0·0	100	554	ESE	0·0	0	0
7	30·057	41·1	40·8	40·4	·251	2·9	0·2	98	556	SE	0·0	0	0
8	30·056	40·8	40·8	40·8	·255	3·1	0·0	100	556	SE	0·0	0	0
9	30·065	39·1	39·1	39·1	·238	2·8	0·0	100	558	SE	0·0	0	0
10	30·068	39·0	38·8	38·5	·233	2·7	0·1	98	559	SE	0·0	0	0
11	30·069	37·0	37·0	37·0	·220	2·6	0·0	100	560	SE	0·0	0	0
Nov. 22. 12	29·725	46·3	45·5	44·7	·296	3·3	0·1	94	544	SSW	0·0	0	3
13	29·682	46·0	45·5	45·0	·299	3·4	0·2	97	543	SSW	0·0	10	4
14	29·636	49·0	47·8	46·4	·316	3·6	0·4	92	539	SSW	0·0	6	4
15	29·592	49·5	48·0	46·4	·316	3·6	0·5	89	538	SSW	0·0	7	4
16	29·570	50·8	49·5	48·1	·336	3·8	0·4	91	536	SSW	0·0	10	4
17	29·512	51·0	49·5	47·9	·334	3·8	0·5	89	535	SSW	0·0	10	5
18	29·468	52·0	50·5	49·0	·348	4·0	0·4	90	533	SSW	0·0	10	6
19	29·434	53·0	51·5	50·0	·361	4·1	0·4	89	531	SSW	0·0	10	8
20	29·414	54·4	52·5	50·6	·369	4·2	0·6	87	529	SSW	2·0	10	10
21	29·403	54·0	53·0	52·0	·388	4·4	0·3	93	529	SSW	2·0	10	10
22	29·425	50·1	48·0	45·8	·308	3·5	0·6	85	534	WSW	2·0	10	0
23	29·421	50·0	48·2	46·3	·315	3·5	0·6	87	534	SW	0·0	10	0
Nov. 23. 0	29·407	50·2	47·7	45·0	·299	3·5	0·6	83	534	SW	0·0	10	0
1	29·394	50·2	47·7	45·0	·299	3·5	0·6	83	534	SW	0·0	10	0
2	29·386	50·0	47·8	45·4	·304	3·5	0·6	85	534	SW	0·0	10	0
3	29·371	49·8	47·8	45·6	·306	3·5	0·5	87	534	SW	0·0	10	0
4	29·354	48·6	46·5	44·2	·290	3·4	0·5	85	535	SW	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Nov. 8. 22	10	10	..	..	Overcast ; thin rain falling.
23	0	0	..	..	Overcast.
Nov. 9. 0	0	0	..	..	Overcast.
1	10	10	..	..	Overcast.
2	0	0	..	..	Overcast.
3	5	5	..	..	Overcast.
4	0	0	..	..	Overcast ; thin rain falling.
5	0	0	..	..	Overcast ; thin rain falling.
6	5	5	..	..	Overcast.
7	10	20	..	..	Overcast.
8	10	20	..	..	Overcast.
9	20	20	..	..	Overcast.
10	20	20	..	..	Overcast.
11	20	20	..	..	Overcast.
Nov. 15. 12	0	0	..	..	Overcast.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Stratus and cirro-stratus near the horizon.
16	0	0	..	..	Overcast.
17	0	0	..	..	Stratus here and there.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	0	0	..	..	Overcast.
21	0	0	..	..	Overcast.
22	10	10	..	..	Overcast.
23	10	10	..	..	Overcast.
Nov. 16. 0	20	20	..	..	Overcast.
1	40	40	..	..	Generally overcast.
2	40	40	..	..	Overcast.
3	60	40	..	..	Overcast.
4	40	40	..	..	Cloudless.
5	30	30	..	..	Cloudless.
6	30	30	..	..	Cloudless.
7	30	30	..	..	Cloudless ; slight haze.
8	10	20	..	..	Cloudless ; slight haze.
9	20	20	..	..	Cloudless ; slight haze.
10	20	20	..	..	Cloudless ; slight haze.
11	30	30	..	..	Cloudless.
Nov. 22. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Overcast.
14	5	5	..	..	Partially cloudy.
15	5	5	..	..	Partially cloudy.
16	5	5	..	..	Overcast.
17	5	5	..	..	Overcast.
18	5	5	..	..	Overcast.
19	10	10	..	..	Overcast.
20	0	0	..	..	Overcast.
21	Out of range	40—	13° to A	2 in 1s at 0·05	Overcast ; heavy rain falling.
22	0	0	..	..	Overcast ; no rain.
23	10	10	..	..	Overcast ; heavy rain.
Nov. 23. 0	40	40	..	..	Overcast.
1	50	40	..	..	Overcast.
2	50	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	Out of range	40	..	..	Overcast.

November 22d. 21h. A little time before this observation the inclination of the gold leaf of the dry pile was 40° +.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Nov. 23. 5	29·346	48·3	46·3	43·9	·287	3·3	0·6	85	535	SW	0·0	10	0
6	29·323	48·3	46·5	44·3	·292	3·4	0·5	86	534	SW	0·0	10	0
7	29·313	48·0	45·7	43·2	·279	3·1	0·7	83	536	SW	0·0	10	0
8	29·306	47·5	45·4	43·1	·278	3·2	0·5	86	535	SW	0·0	10	0
9	29·294	47·5	46·6	45·6	·306	3·4	0·3	94	535	SW	0·0	10	0
10	29·281	46·5	45·5	44·5	·295	3·4	0·4	93	536	SW	0·0	10	0
11	29·269	46·0	45·1	44·1	·289	3·3	0·3	94	536	SW	0·0	10	0
Nov. 29. 12	29·886	38·4	38·4	38·4	·232	2·7	0·0	100	556	ENE	0·0	4	0
13	29·877	39·5	39·5	39·5	·242	2·9	0·0	100	555	E	0·0	10	0
14	29·852	43·0	41·6	39·9	·246	2·8	0·4	88	550	ESE	0·0	10	0
15	29·840	43·4	41·7	39·7	·244	2·8	0·4	85	550	ESE	1·0	10	2
16	29·826	43·8	42·0	39·8	·245	2·8	0·5	86	549	ESE	0·5	10	3
17	29·806	44·0	42·2	40·0	·247	2·8	0·5	85	548	ESE	1·0	10	4
18	29·796	43·1	41·9	40·5	·252	2·9	0·3	88	549	ESE	2·0	10	5
19	29·786	42·3	41·7	41·0	·257	2·9	0·2	93	550	ESE	1·0	10	6
20	29·780	42·6	40·9	38·8	·236	2·7	0·4	87	549	ESE	1·5	10	6
21	29·787	42·1	40·6	38·7	·235	2·7	0·4	88	550	ESE	1·5	10	4
22	29·787	41·8	39·8	37·3	·223	2·6	0·5	85	551	ESE	1·5	10	0
23	29·779	41·0	38·8	36·0	·212	2·5	0·5	83	551	SSE	1·5	10	0
Nov. 30. 0	29·730	41·7	39·7	37·3	·223	2·6	0·5	85	550	SSE	1·0	10	1
1	29·736	40·9	38·6	35·7	·209	2·4	0·6	81	551	SSE	2·0	10	1
2	29·724	40·5	38·7	36·4	·215	2·5	0·5	86	551	SSE	0·0	10	3
3	29·724	39·8	38·2	36·2	·214	2·5	0·4	87	551	SSE	0·0	10	3
4	29·725	39·5	38·0	36·0	·212	2·4	0·2	88	552	SSE	0·0	10	3
5	29·725	39·4	38·0	36·2	·214	2·5	0·4	89	552	SSE	0·0	10	2
6	29·724	39·7	38·2	36·3	·214	2·5	0·4	88	552	SSE	0·0	10	2
7	29·722	39·6	38·5	37·1	·221	2·5	0·3	91	552	SSE	0·0	10	2
8	29·705	37·1	37·0	36·9	·219	2·6	0·1	99	554	SE	0·0	0	3
9	29·724	36·6	36·4	36·2	·214	2·6	0·1	98	555	SSE	0·0	0	3
10	29·720	36·8	36·8	36·8	·218	2·7	0·0	100	555	SSE	0·0	7	5
11	29·720	36·3	36·3	36·3	·214	2·6	0·0	100	555	SSE	0·0	6	5
Dec. 6. 12	30·283	51·7	50·8	50·0	·361	4·1	0·3	94	548	SSW	0·0	10	10
13	30·282	52·0	51·0	50·0	·361	4·1	0·3	93	547	SSW	0·0	10	10
14	30·282	51·0	51·0	51·0	·374	4·2	0·0	100	548	SSW	0·0	10	10
15	30·284	51·5	51·5	51·5	·381	4·3	0·0	100	549	SSW	0·0	10	10
16	30·284	50·5	50·5	50·5	·367	4·2	0·0	100	549	SSW	0·0	10	10
17	30·283	50·5	50·5	50·5	·367	4·2	0·0	100	549	SSW	0·0	10	10
18	30·280	50·8	50·5	50·2	·364	4·1	0·1	98	549	SSW	0·0	10	10
19	30·280	51·0	51·0	51·0	·374	4·2	0·0	100	548	SSW	0·0	10	10
20	30·294	51·4	50·3	49·2	·351	4·0	0·3	92	548	SSW	0·0	8	10
21	30·305	52·0	50·8	49·7	·357	4·0	0·4	91	548	SSW	0·0	10	10
22	30·315	52·0	50·6	49·3	·352	4·0	0·4	90	548	SSW	0·0	10	10
23	30·299	52·5	50·6	48·8	·345	3·9	0·6	87	547	SSW	1·0	10	10
Dec. 7. 0	30·282	52·3	50·5	48·3	·339	3·8	0·6	86	547	SW	3·0	10	5
1	30·268	52·5	50·4	48·3	·339	3·8	0·6	85	547	SW	1·5	10	6
2	30·264	51·9	50·5	49·1	·349	4·0	0·4	90	547	SW	1·0	9	6
3	30·262	52·2	50·7	49·3	·352	4·0	0·4	89	547	SW	2·0	10	6
4	30·261	52·8	50·9	49·1	·349	3·9	0·6	87	547	SW	2·0	10	6
5	30·256	52·7	51·0	49·3	·352	4·0	0·5	89	547	WSW	2·2	10	6
6	30·264	53·2	51·2	49·2	·351	3·9	0·6	86	546	WSW	1·5	10	5
7	30·278	53·0	51·1	49·2	·351	3·9	0·6	87	546	WSW	1·5	9	5
8	30·319	53·3	51·1	48·9	·346	3·9	0·7	85	547	WSW	2·5	4	5
9	30·331	52·7	51·1	49·5	·355	4·0	0·5	89	548	W	2·0	4	5

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h	°	°			
Nov. 23. 5	20	20	..	..	Overcast.
6	Out of range	40	..	..	Overcast.
7	60	40	..	..	Overcast.
8	60	40	..	..	Overcast.
9	Out of range	40; 40—	2° to A	..	Overcast; thin rain falling.
10	Out of range	40	..	..	Overcast; thin rain falling.
11	0	0	..	..	Overcast; thin rain falling.
Nov. 29. 12	40	40	..	..	Cirrus and stratus here and there.
13	20	20	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast; strong wind.
16	0	0	..	..	Overcast; strong wind.
17	0	0	..	..	Overcast; strong wind.
18	0	0	..	..	Overcast; strong wind.
19	0	0	..	..	Overcast; strong wind.
20	0	0	..	..	Overcast; strong wind.
21	5	5	..	..	Overcast; strong wind.
22	5	5	..	..	Overcast; strong wind.
23	10	10	..	..	Overcast; strong wind.
Nov. 30. 0	20	20	..	..	Overcast; strong wind.
1	30	30	..	..	Overcast; strong wind.
2	10	10	..	..	Overcast.
3	30	30	..	..	Overcast.
4	60	40	..	..	Overcast.
5	60	40	..	..	Overcast.
6	60	40	..	..	Overcast.
7	60	40	..	..	Overcast.
8	Out of range	40	..	1 in 1" at 0·02	Cloudless.
9	40	30	..	..	Cloudless.
10	40	30	..	..	Partially cloudy.
11	20	20	..	..	Partially cloudy; the Moon is surrounded by a well coloured corona, within which is a glory; the corona is fine of its kind.
Dec. 6. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	20	20	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast.
19	40	40	..	..	Overcast.
20	80	40	..	..	Cirro-cumulus clouds cover a large portion of the sky.
21	20	20	..	..	Cirro-cumulus clouds cover the sky.
22	10	10	..	..	Overcast.
23	10	10	..	..	Overcast; high wind.
Dec. 7. 0	40	40	..	..	Overcast; high wind.
1	10	10	..	..	Overcast; high wind.
2	30	30	..	..	Generally overcast; high wind.
3	40	40	..	..	Overcast; high wind.
4	20	20	..	..	Overcast; high wind.
5	40	40	..	..	Overcast; high wind.
6	20	20	..	..	Overcast; high wind.
7	60	40	..	..	Generally overcast; high wind.
8	Out of range	40	..	..	Partially clear; high wind.
9	Out of range	40	..	..	Partially clear; high wind.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Dec. 7. 10	30·361	51·0	49·5	47·9	·334	3·7	0·5	89	550	W	1·5	2	5
11	30·374	49·2	47·8	46·2	·313	3·6	0·4	90	553	W	2·0	0	6
Dec. 13. 12	30·354	41·4	39·2	36·5	·216	2·5	0·5	83	561	SW	0·0	10	0
13	30·341	41·3	38·9	35·9	·211	2·5	0·6	82	561	Calm	0·0	10	0
14	30·332	41·1	38·7	35·6	·208	2·4	0·6	81	561	Calm	0·0	10	0
15	30·318	40·5	38·5	36·0	·212	2·5	0·5	85	562	Calm	0·0	10	0
16	30·305	39·8	38·3	36·4	·215	2·5	0·4	88	562	Calm	0·0	10	2
17	30·286	39·5	38·0	36·0	·212	2·4	0·4	88	562	Calm	0·0	10	3
18	30·282	39·1	37·7	36·0	·212	2·4	0·4	88	563	Calm	0·0	10	3
19	30·274	38·9	37·5	35·6	·208	2·4	0·3	89	563	Calm	0·0	10	4
20	30·275	38·9	37·6	35·8	·210	2·4	0·4	89	563	Calm	0·0	10	5
21	30·283	39·4	38·1	36·4	·215	2·5	0·4	90	562	Calm	0·0	10	0
22	30·282	40·2	38·1	35·4	·207	2·4	0·5	83	561	Calm	0·0	10	0
23	30·265	40·5	38·4	35·7	·209	2·4	0·5	84	561	Calm	0·0	10	0
Dec. 14. 0	30·220	40·8	39·0	36·7	·218	2·5	0·5	86	560	Calm	0·0	10	5
1	30·195	41·8	40·0	37·7	·226	2·6	0·5	86	558	SW	0·0	10	5
2	30·174	42·8	41·0	38·8	·236	2·7	0·5	86	556	SW	0·0	10	6
3	30·160	42·6	41·0	39·2	·239	2·7	0·4	87	556	SW	0·0	10	6
4	30·155	42·7	41·0	39·0	·238	2·7	0·4	86	556	SW	0·0	10	6
5	30·147	42·5	41·0	39·2	·239	2·7	0·4	88	556	SW	0·0	10	6
6	30·139	41·5	40·2	38·5	·233	2·7	0·4	90	557	SW	0·0	10	6
7	30·126	41·0	39·7	38·1	·230	2·6	0·4	87	558	SW	0·0	10	6
8	30·114	40·6	40·0	39·3	·240	2·8	0·1	95	558	SW	0·0	10	6
9	30·105	41·6	40·0	38·0	·229	2·6	0·4	88	556	SW	0·0	10	5
10	30·096	41·6	40·0	38·0	·229	2·6	0·4	88	556	SW	0·0	10	5
11	30·087	41·5	40·0	38·1	·230	2·6	0·4	88	556	SW	0·0	10	5
Dec. 20. 12	29·858	41·2	40·3	39·2	·239	2·7	0·3	93	552	WSW	0·0	0	3
13	29·864	41·2	40·2	38·9	·237	2·7	0·3	92	552	WSW	0·0	9	3
14	29·869	42·2	40·9	39·3	·240	2·8	0·4	90	551	WSW	0·0	10	4
15	29·871	43·2	41·8	40·2	·249	2·8	0·4	87	550	WSW	0·0	10	4
16	29·867	44·5	43·3	41·9	·266	3·0	0·3	91	549	WSW	0·0	10	4
17	29·867	46·0	44·8	43·4	·281	3·3	0·3	92	547	WSW	0·0	10	4
18	29·862	45·8	45·3	44·8	·297	3·4	0·2	96	547	WSW	0·0	10	5
19	29·860	47·1	46·6	46·1	·312	3·5	0·2	96	545	WSW	0·6	10	6
20	29·870	47·5	46·7	45·8	·308	3·4	0·3	94	545	WSW	0·0	10	8
21	29·878	48·2	47·3	46·3	·315	3·5	0·3	94	545	WSW	0·8	10	4
22	29·889	49·3	48·0	46·6	·318	3·6	0·4	91	544	WSW	0·5	10	0
23	29·895	50·2	48·5	46·7	·319	3·6	0·5	88	543	WSW	1·3	10	0
Dec. 21. 0	29·899	51·5	49·2	46·8	·321	3·6	0·7	84	541	WSW	1·0	10	0
1	29·914	51·3	49·2	47·0	·323	3·6	0·7	85	542	WSW	0·8	10	0
2	29·912	51·4	49·0	46·5	·317	3·6	0·7	84	542	WSW	0·6	10	0
3	29·916	51·2	49·0	46·7	·319	3·6	0·7	85	542	WSW	1·0	10	0
4	29·922	51·1	49·0	46·8	·321	3·6	0·6	85	542	WSW	1·3	10	0
5	29·925	50·6	48·9	47·2	·325	3·6	0·9	88	543	WSW	0·8	10	0
6	29·931	50·2	48·7	47·2	·325	3·6	0·5	87	543	WSW	0·6	10	0
7	29·933	50·5	49·0	47·4	·328	3·7	0·5	88	543	WSW	1·6	10	0
8	29·944	50·5	49·0	47·4	·328	3·7	0·5	88	543	WSW	1·0	10	0
9	29·956	51·0	49·5	47·9	·334	3·7	0·5	89	543	WSW	2·8	10	0
10	29·966	51·5	49·6	47·6	·330	3·7	0·6	87	543	WSW	2·0	10	0
11	29·977	51·5	49·5	47·4	·328	3·7	0·7	86	543	WSW	1·4	10	0
Dec. 27. 12	30·294	37·1	36·6	35·9	·211	2·4	0·2	95	565	W	0·0	10	0
13	30·283	35·8	35·6	35·4	·207	2·4	0·1	98	567	Calm	0·0	4	0
14	30·294	34·3	34·3	34·3	·198	2·3	0·0	100	569	Calm	0·0	0	0
15	30·299	33·8	33·8	33·8	·194	2·2	0·0	100	569	Calm	0·0	0	0
16	30·300	33·2	33·2	33·2	·189	2·2	0·0	100	570	Calm	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer. No. of Sparks, &c.	Clouds and Weather.
d h					
Dec. 7. 10	Out of range	40	..	3 in 1 at 0".3	Clouds in the W., otherwise clear; high wind.
11	Out of range	40	..	3 in 1 at 0".3	Cloudless; strong wind.
Dec. 13. 12	20	20	..	..	Overcast.
13	20	20	..	..	Overcast.
14	10	10	..	..	Overcast.
15	10	10	..	..	Overcast.
16	10	10	..	..	Overcast.
17	20	20	..	..	Overcast.
18	10	10	..	..	Overcast.
19	Out of range	40	..	..	Overcast.
20	Out of range	40	2° to B	2 in 1 at 0".3	Overcast; rain.
21	Out of range	40	..	..	Overcast.
22	Out of range	40	..	..	Overcast.
23	Out of range	40	..	..	Overcast.
Dec. 14. 0	Out of range	40	..	..	Overcast.
1	Out of range	40	..	..	Overcast.
2	Out of range	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast.
6	Out of range	40	..	..	Overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	60	40	..	..	Overcast.
10	60	40	..	..	Overcast.
11	80	40	..	..	Overcast.
Dec. 20. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Generally overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast; heavy rain.
18	0	0	..	..	Overcast; heavy rain.
19	0	0	..	..	Overcast; the rain ceased at $19^h.\ 15^m.$
20	5	5	..	..	Overcast.
21	10	10	..	..	Overcast.
22	20	20	..	..	Overcast.
23	20	20	..	..	Overcast.
Dec. 21. 0	60	40	..	..	Overcast.
1	60	40	..	..	Overcast.
2	60	40	..	..	Overcast.
3	80	40	..	..	Overcast.
4	70	40	..	..	Overcast.
5	30	30	..	..	Overcast.
6	20	30	..	..	Overcast; rain falling.
7	30	30	..	..	Overcast.
8	5	5	..	..	Overcast.
9	20	20	..	..	Overcast.
10	30	30	..	..	Overcast.
11	20	30	..	..	Overcast.
Dec. 27. 12	Out of range	40	1° to B	..	Dense cumulus and cirro-cumulus.
13	20	20	..	..	Cumulus, cirro-cumulus, and cirrus here and there.
14	5	5	..	..	Cloudless; haze.
15	20	20	..	..	Cloudless; haze.
16	10	10	..	..	Cloudless; haze.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in	°	°	°	in.	gr	gr		gr.		lb.		
Dec. 27. 17	30·303	32·2	32·2	32·2	·182	2·1	0·0	100	570	Calm	0·0	0	0
18	30·306	31·2	31·2	31·2	·175	2·1	0·0	100	572	Calm	0·0	0	0
19	30·313	31·2	31·2	31·2	·175	2·1	0·0	100	573	Calm	0·0	0	0
20	30·327	31·2	31·2	31·2	·175	2·1	0·0	100	573	Calm	0·0	0	0
21	30·331	32·7	32·7	32·7	·186	2·1	0·0	100	571	Calm	0·0	0	0
22	30·350	34·9	34·7	34·5	·199	2·3	0·1	99	569	Calm	0·0	7	0
23	30·342	36·5	35·8	34·8	·202	2·3	0·2	94	567	Calm	0·0	0	0
Dec. 28. 0	30·342	38·2	37·2	35·8	·210	2·4	0·3	91	565	Calm	0·0	10	0
1	30·336	39·3	38·3	37·0	·220	2·5	0·3	92	564	Calm	0·0	10	0
2	30·339	39·5	38·3	36·7	·218	2·5	0·3	90	563	Calm	0·0	10	0
3	30·350	39·8	38·3	36·3	·214	2·5	0·4	88	563	Calm	0·0	10	0
4	30·346	39·1	38·0	36·6	·217	2·5	0·3	91	564	Calm	0·0	2	0
5	30·346	38·4	37·5	36·2	·214	2·5	0·3	92	565	Calm	0·0	6	0
6	30·352	39·0	38·0	36·7	·218	2·5	0·3	92	564	Calm	0·0	10	0
7	30·357	39·0	37·5	35·6	·208	2·4	0·4	88	564	Calm	0·0	10	0
8	30·363	38·8	37·5	35·8	·210	2·4	0·4	89	565	Calm	0·0	10	0
9	30·369	38·6	38·0	37·2	·222	2·6	0·1	95	565	Calm	0·0	9	0
10	30·370	38·4	38·0	37·5	·225	2·7	0·1	97	565	Calm	0·0	10	0
11	30·374	38·5	38·0	37·3	·223	2·6	0·1	96	565	Calm	0·0	10	0

In explanation of the hourly observations of meteorological elements given in the preceding Tables, and made once in every week during twenty-four hours from 1856, August, to 1857, December, it may be stated that they have their origin in the necessity that was found for taking hourly readings, during the same period of time, of the thermometers included in the boxes of the Horizontal Force and Vertical Force Magnetometers, for the purpose of obtaining, in connexion with the two-hourly observations of their temperatures which were made during the years 1841 to 1847 inclusive, the law of diurnal change of temperature of those magnets. The hourly readings of the thermometers in the boxes of the magnets are printed in connexion with the Magnetical Observations of 1856 and 1857, and it has been thought desirable to add to them those observations which it was found expedient to make of the general meteorological elements at the same time, advantage being taken of the necessity of an observer being employed throughout the day and night, for the purpose of assisting in the determination of the diurnal range of those elements.

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h					
Dec. 27. 17	Out of range	40	..	..	Cloudless.
18	Out of range	40	1° to B	..	Cloudless.
19	Out of range	40	1° to B	..	Cloudless.
20	Out of range	40	..	..	Cloudless.
21	Out of range	40	..	..	Cloudless ; haze and fog.
22	Out of range	40	..	..	Haze and fog ; light clouds.
23	Out of range	40	..	..	Haze and fog.
Dec. 28. 0	Out of range	40	..	..	Fog.
1	Out of range	40	..	..	Fog.
2	Out of range	40	..	..	Fog.
3	Out of range	40	..	..	Fog.
4	Out of range	40	..	..	Cirro-cumulus near the horizon.
5	Out of range	40	..	..	Partially cloudy ; cirro-cumulus.
6	Out of range	40	..	..	Cirro-cumulus in all directions.
7	Out of range	40	..	..	Cirro-cumulus in all directions.
8	Out of range	40	..	..	Cirro-cumulus ; haze and fog.
9	Out of range	40	..	..	Cirro-cumulus ; haze and fog.
10	Out of range	40	..	..	The whole sky is covered with thin cirrus.
11	Out of range	40	..	..	The whole sky is covered with thin cirrus.

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1857.		Reading.	Approximate Mean Solar Time, 1857.		Reading.	Approximate Mean Solar Time, 1857.		Reading.	Approximate Mean Solar Time, 1857.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	7. 9. 0	30·258	January	3. 9. 0	28·968	July	2. 9. 0	29·912	June	30. 0. 0	29·411
	14. 9. 0	30·050		10. 22. 0	28·848		12. 21. 0	30·193	July	5. 11. 20	29·496
	17. 0. 0	30·212		15. 3. 0	29·847		18. 9. 0	30·064		16. 0. 0	29·699
	21. 21. 0	29·709		20. 9. 0	29·179		28. 21. 0	30·026		24. 21. 0	29·633
	26. 21. 0	29·764		23. 21. 0	28·970	August	2. 2. 15	29·978		30. 3. 0	29·852
February	0. 21. 35	29·820		30. 21. 0	29·525		11. 21. 0	30·009	August	7. 3. 0	29·514
	4. 9. 0	30·138	February	2. 9. 0	29·407		18. 21. 0	30·004		13. 21. 0	29·538
	12. 9. 0	30·246		9. 9. 0	29·382		26. 21. 0	30·180		23. 8. 0	29·625
March	0. 21. 50	30·433		17. 9. 0	29·859	September	6. 21. 0	29·761	September	3. 21. 0	29·405
	12. 0. 0	29·915	March	8. 1. 30	29·369		19. 0. 0	30·245		8. 3. 0	29·292
	16. 9. 0	29·892		13. 21. 0	28·968	October	1. 21. 0	30·075		25. 3. 0	29·666
	21. 0. 0	29·896		18. 3. 0	29·619		12. 21. 0	30·098	October	8. 3. 0	28·669
	27. 9. 0	29·899		24. 21. 0	29·323		19. 21. 0	29·720		18. 8. 20	29·339
April	0. 21. 0	29·351		30. 3. 0	29·025		23. 21. 0	30·016		22. 3. 0	29·457
	4. 0. 0	29·662	April	1. 21. 0	29·037		28. 9. 0	29·913		26. 21. 0	29·636
	7. 9. 0	29·820		5. 9. 0	29·437		30. 21. 0	30·017		29. 21. 0	29·671
	11. 9. 0	29·418		10. 7. 0	29·274	November	11. 21. 0	30·609	November	2. 3. 0	29·535
	20. 21. 0	30·136		12. 21. 0	28·821		20. 21. 0	30·230		17. 3. 0	29·997
May	5. 9. 0	30·116		25. 9. 0	29·521		28. 9. 0	30·024		23. 21. 0	29·087
	15. 21. 0	30·005	May	10. 21. 0	29·513	December	2. 0. 0	29·937	December	0. 21. 0	29·709
	31. 9. 20	29·951		25. 9. 0	29·252		7. 21. 0	30·550		3. 3. 0	29·617
June	3. 21. 0	29·991	June	2. 3. 0	29·716		12. 0. 0	30·574		9. 9. 0	30·222
	12. 21. 0	30·175		10. 3. 0	29·396		17. 9. 0	30·077		16. 3. 0	29·954
	17. 21. 0	30·036		15. 21. 0	29·780		19. 9. 0	30·026		18. 9. 0	29·841
	25. 0. 0	30·254		20. 9. 0	29·788		29. 21. 0	30·454		20. 6. 0	29·754

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1857.

1857. Month.	Mean Reading of the Barometer.	Temperature of the Air.							Mean Temperature of Dew Point.
		Highest.	Lowest.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.	
	in.	°	°	°	°	°	°	°	°
January	29·634	52·7	20·0	32·7	41·8	32·1	9·7	36·6	33·9
February	29·950	56·9	20·0	36·9	47·2	32·5	14·7	39·2	35·1
March	29·720	66·2	27·7	38·5	50·2	35·9	14·3	41·8	36·4
April	29·632	69·0	28·2	40·8	55·8	38·8	17·0	45·7	40·2
May	29·786	80·2	31·5	48·7	67·1	44·0	23·1	54·0	46·2
June	29·858	92·7	38·8	53·9	76·0	50·5	25·5	61·8	53·2
July	29·847	89·7	45·7	44·0	77·9	54·3	23·6	64·5	55·1
August	29·836	88·0	48·8	39·2	78·1	56·4	21·7	65·4	57·5
September	29·786	80·7	41·5	39·2	70·2	52·1	18·1	59·7	55·3
October	29·695	69·0	37·8	31·2	61·6	47·1	14·5	52·9	50·6
November	29·942	64·3	30·0	34·3	51·9	40·6	11·3	45·8	44·2
December	30·158	57·0	30·8	26·2	50·3	39·6	10·7	45·1	42·4
Means	29·820	72·2	33·4	38·8	60·7	43·7	17·0	51·0	45·8

1857. Month.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required to saturate a Cubic Foot of Air.	Mean Degree of Humidity. (Sat. = 100.)	Mean Weight of a Cubic Foot of Air.	Wind.			Mean Amount of Cloud. 0–10	Rain.	
						Prevailing Direction.	Mean Daily Pressure in lbs. on Square Foot.	Mean Daily Horizontal Movement of Wind in Miles.		Number of Rainy Days.	Amount collected on the Ground.
	in.	gr.	gr.		gr.						in.
January	0·195	2·3	0·3	91	553	W ; N	0·25	104	7·5	20	2·6
February	0·204	2·4	0·4	86	556	S ; W	0·10	58	6·8	3	0·2
March	0·215	2·5	0·6	82	549	S ; W	0·44	88	7·8	10	1·0
April	0·247	2·8	0·7	82	543	S	0·14	91	7·8	18	1·4
May	0·313	3·5	1·2	75	537	E	0·03	64	6·1	5	0·6
June	0·406	4·5	1·6	74	530	E ; S	0·01	120	4·8	9	2·1
July	0·434	4·9	1·8	73	526	W ; S	0·01	102	6·4	9	1·3
August	0·473	5·2	1·7	77	525	S ; E	0·01	50	5·7	11	2·7
September	0·437	4·9	0·9	86	530	S ; W	0·01	56	5·8	13	3·9
October	0·369	4·1	0·4	93	536	S ; W	0·10	78	6·6	9	3·9
November	0·290	3·5	0·2	98	548	N ; E	0·02	45	8·2	8	1·3
December	0·271	3·1	0·3	90	552	S ; W	0·10	111	7·2	6	0·4
Means	0·321	3·7	0·8	84	540	..	..	..	6·7	Sum 121	Sum 21·4

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays, Good Friday, Fast Day, and Christmas Day.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·43	*S*	*S*	48·97	48·04	48·17	48·40	49·15	50·19	51·23	*S*	52·36
2	51·38	50·62	49·81	48·95	48·37	48·14	48·40	*S*	50·19	51·26	52·16	52·42
3	51·35	50·57	49·76	48·92	*S*	48·16	48·42	49·28	50·24	51·29	52·19	52·40
4	*S*	50·55	49·72	48·91	48·33	48·15	48·42	49·26	50·29	*S*	52·19	52·41
5	51·32	50·53	49·69	*S*	48·33	48·19	*S*	49·26	50·31	51·35	52·22	52·40
6	51·30	50·54	49·68	48·88	48·32	48·21	48·51	49·30	*S*	51·36	52·21	*S*
7	51·26	50·47	49·65	48·83	48·32	*S*	48·47	49·32	50·40	Fast Day.	52·22	52·40
8	51·20	*S*	*S*	48·82	48·27	48·14	48·50	49·32	50·40	51·40	*S*	52·38
9	51·24	50·41	49·58	48·77	48·30	48·18	48·53	*S*	50·43	51·42	52·25	52·37
10	51·24	50·41	49·55	Good Friday	*S*	48·31	48·55	49·45	50·50	51·48	52·26	52·39
11	*S*	50·40	49·48	48·72	48·26	48·18	48·57	49·43	50·50	*S*	52·27	52·37
12	51·18	50·34	49·48	*S*	48·26	48·16	*S*	49·50	50·56	51·56	52·26	52·37
13	51·14	50·29	49·44	48·65	48·25	48·20	48·63	49·58	*S*	51·58	52·24	*S*
14	51·13	50·29	49·40	48·66	48·26	*S*	48·67	49·55	50·62	51·62	52·32	52·37
15	51·08	*S*	*S*	48·63	48·27	48·20	48·71	49·51	50·68	51·63	*S*	52·39
16	51·08	50·24	49·35	48·63	48·24	48·21	48·69	*S*	50·72	51·64	52·31	52·37
17	51·06	50·22	49·33	48·60	*S*	48·22	48·72	49·64	50·76	51·69	52·30	52·38
18	*S*	50·19	49·35	48·62	48·23	48·22	48·74	49·57	50·78	*S*	52·32	52·37
19	51·03	50·20	49·28	*S*	48·22	48·22	*S*	49·72	50·81	51·73	52·31	52·32
20	51·00	50·06	49·27	48·60	48·22	48·23	48·80	49·79	*S*	51·75	52·34	*S*
21	50·87	50·10	49·22		48·19	*S*	48·83	49·81	50·89	51·73	52·33	52·36
22	50·94	*S*	*S*	48·54	48·18	48·27	48·85	49·84	50·92	51·77	*S*	52·32
23	50·89	50·04	49·15	48·48	48·21	48·26	48·92	*S*	50·94	52·03	52·36	52·29
24	50·87	50·01	49·15	48·45	*S*	48·30	48·92	49·93	51·00	51·97	52·35	52·32
25	*S*	49·93	49·11	48·47	48·17	48·30	48·93	49·95	51·04	*S*	52·35	Christ. Day.
26	50·80	49·94	49·08	*S*	48·18	48·34	*S*	49·98	51·06	52·03	52·32	52·28
27	50·80	49·91	49·12	48·38	48·16	48·33	48·98	50·04	*S*	52·03	52·36	*S*
28	50·72	49·88	49·06	48·40	48·20	*S*	49·03	50·06	51·12	52·06	52·36	52·25
29	50·72		*S*	48·37	48·14	48·35	49·07	50·08	51·16	52·08	*S*	52·22
30	50·68		48·98	48·40	48·18	48·37	49·08	*S*	51·20	52·10	52·36	52·22
31	50·68		48·98		*S*		49·13	50·19		52·11		52·20
Means	51·05	50·26	49·37	48·65	48·24	48·23	48·72	49·64	50·68	51·69	52·29	52·34

April 21. The scales of the several Thermometers, whose bulbs are sunk below the surface of the soil, were removed for re-silvering.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·72	*S*	*S*	45·54	46·30	48·01	51·08	53·97	55·98	56·60	*S*	53·90
2	49·62	47·37	45·80	45·55	46·36	48·10	51·17	*S*	55·92	56·61	55·65	53·88
3	49·54	47·25	45·77	45·53	*S*	48·21	51·31	54·26	56·02	56·86	55·61	53·80
4	*S*	47·22	45·70	45·55	46·39	48·32	51·41	54·31	56·12	*S*	55·53	53·72
5	49·38	47·13	45·73	*S*	46·46	48·47	*S*	54·28	56·20	56·54	55·51	53·58
6	49·32	47·12	45·73	45·55	46·43	48·60	51·72	54·38	*S*	56·53	55·41	*S*
7	49·21	47·01	45·73	45·54	46·40	*S*	51·74	54·42	56·31	Fast Day.	55·35	53·42
8	49·08	*S*	*S*	45·58	46·42	48·71	51·85	54·46	56·32	56·46	*S*	53·31
9	49·05	46·90	45·68	45·55	46·53	48·82	51·97	*S*	56·33	56·44	55·23	53·32
10	48·97	46·78	45·63	Good Friday	*S*	48·19	52·12	54·76	56·45	56·50	55·19	53·18
11	*S*	46·72	45·63	45·60	46·54	49·04	52·22	54·81	56·40	*S*	55·12	53·04
12	48·80	46·62	45·65	*S*	46·59	49·13	*S*	54·90	56·48	56·50	55·05	52·97

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*concluded.*

Day of the Month. 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°			°								
13	48·55	46·57	45·65	45·64	46·[illegible]	49·32	52·43	[illegible]	*S*	56·42	54·95	*S*
14	48·62	46·47	45·65	45·68	46·68	*S*	52·53	54·96	56·50	[illegible]	55·05	52·82
15	48·53	*S*	*S*	45·71	46·71	49·50	52·62	55·06	[illegible]	56·36	*S*	52·80
16	48·48	46·35	45·63	45·76	46·[illegible]	49·61	52·64	*S*	56·62	[illegible]	54·90	52·78
17	48·40	46·32	45·64	45·81	*S*	49·71	52·[illegible]	[illegible]	56·66	[illegible]	54·83	52·65
18	*S*	46·22	45·68	45·80	46·82	49·76	52·80	55·27	56·61	*S*	54·82	52·61
19	48·25	46·20	45·58	*S*	46·81	49·[illegible]	*S*	[illegible]	56·56	[illegible]	54·72	52·49
20	48·22	46·08	45·60	45·[illegible]	46·90	50·02	52·[illegible]	55·39	*S*	56·16	54·71	*S*
21	48·10	46·07	45·53		46·[illegible]	*S*	53·00	55·44	56·60	56·10	[illegible]	52·39
22	48·07	*S*	*S*	46·04	46·98	50·12	53·00	55·53	56·57	56·00	*S*	52·32
23	47·97	45·96	45·52	46·04	47·10	50·28	53·18	*S*	56·60	[illegible]	54·50	52·28
24	47·95	45·96	45·53	46·06	*S*	50·40	53·30	55·67	[illegible]	56·08	54·42	52·19
25	*S*	45·83	45·55	46·10	47·26	50·50	53·32	[illegible]	56·59	*S*	54·31	Christ. Day.
26	47·77	45·83	45·53	*S*	47·42	50·60	*S*	55·69	56·60	56·02	54·24	52·07
27	47·77	45·83	45·53	46·15	47·43	[illegible]	53·50	55·76	*S*	[illegible]	54·22	*S*
28	47·62	45·83	45·53	46·21	47·[illegible]	*S*	53·57	55·76	56·57	55·90	54·16	51·92
29	47·61		*S*	46·26	47·43	50·90	53·72	[illegible]	56·62	55·85	*S*	51·87
30	47·48		45·52	46·30	47·80	50·96	53·82	*S*	[illegible]	55·78	53·97	51·79
31	47·50		45·55		*S*		53·92	56·02		55·74		51·73
Means.	48·50	46·[illegible]	45·62	45·[illegible]	46·84	49·46	52·58	55·08	[illegible]	56·26	54·[illegible]	52·80

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at the same times.

Day of the Month. 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°		°			°		°	°	°	
1	46·[illegible]	*S*	*S*	44·48	46·[illegible]	[illegible]	57·70	60·58	62·02	59·92	*S*	[illegible]
2	46·15	43·70	43·70	44·73	[illegible]	[illegible]	57·92	*S*	61·92	59·83	55·97	51·79
3	45·88	43·59	43·71	44·70	*S*	52·83	58·11	[illegible]	61·93	59·71	55·86	51·94
4	*S*	43·51	43·60	44·82	46·95	[illegible]	58·18	[illegible]	[illegible]	*S*	55·68	51·40
5	45·90	43·31	43·83	*S*	[illegible]	[illegible]	*S*	60·92	61·92	59·48	55·58	51·35
6	45·91	43·26	43·96	45·13	[illegible]	53·45	58·25	[illegible]	*S*	59·40	55·50	*S*
7	45·88	42·93	44·05	45·26	47·09	*S*	58·13	61·15	61·62	Fast Day.	55·50	51·22
8	45·77	*S*	*S*	45·42	47·14	53·67	[illegible]	[illegible]	61·43	59·08	*S*	51·14
9	45·70	42·83	44·12	45·70	47·33	[illegible]	58·16	*S*	61·31	58·87	55·46	51·09
10	45·40	42·70	44·20	Good Friday	*S*	54·14	[illegible]	61·37	61·29	58·77	55·41	[illegible]
11	*S*	42·90	44·14	46·15	47·47	54·32	[illegible]	[illegible]	[illegible]	*S*	55·38	[illegible]
12	45·06	42·75	44·14	*S*	47·61	54·42	*S*	61·20	61·13	58·40	55·26	50·96
13	45·11	42·83	44·07	46·32	47·79	[illegible]	58·10	[illegible]	*S*	58·17	[illegible]	*S*
14	45·16	42·07	44·02	46·50	48·00	*S*	58·08	[illegible]	[illegible]	[illegible]	55·15	50·86
15	45·16	*S*	*S*	46·48	48·28	[illegible]	[illegible]	[illegible]	60·82	57·87	*S*	50·74
16	45·12	42·92	43·88	46·52	[illegible]	[illegible]	58·41	*S*	60·80	57·81	54·66	50·68
17	45·03	43·01	43·90	46·47	*S*	[illegible]	58·64	[illegible]	60·71	[illegible]	[illegible]	50·60
18	*S*	42·96	44·02	46·50	49·16	[illegible]	[illegible]	[illegible]	60·60	*S*	[illegible]	50·50
19	44·80	43·02	44·02	*S*	49·45	[illegible]	*S*	[illegible]	60·55	57·58	54·03	50·40
20	44·80	43·04	44·10	46·45	49·83	[illegible]	[illegible]	[illegible]	*S*	[illegible]	53·89	*S*
21	44·65	43·12	44·17		[illegible]	*S*	[illegible]	[illegible]	60·57	57·40	53·64	50·48
22	44·75	*S*	*S*	46·68	50·37	[illegible]	[illegible]	61·26	60·48	57·30	*S*	[illegible]
23	44·70	43·27	44·[illegible]	46·76	50·82	[illegible]	59·81	*S*	60·44	56·10	53·36	50·25
24	44·54	43·48	44·47	[illegible]	*S*	56·34	59·98	61·42	60·40	56·65	[illegible]	[illegible]
25	*S*	43·45	44·50	47·06	51·22	56·50	59·98	61·50	60·27	*S*	[illegible]	Christ. Day
26	44·41	43·62	44·45	*S*	[illegible]	[illegible]	*S*	[illegible]	60·20	56·64	[illegible]	[illegible]

Some of the fluid of this thermometer, to the extent of 5°, was removed on June 22 by Mr. Negretti. A corresponding alteration was made in the position of the graduated scale.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6 French feet—*concluded*.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°											
27	44·41	43·70	44·60	47·12	51·56	56·93	62·13	61·76	*S*	56·54	52·67	*S*
28	44·25	43·70	44·38	47·12	51·88	*S*	60·35	61·84	60·08	56·50	52·54	50·15
29	44·36		*S*	47·08	51·92	57·28	60·54	61·92	60·04	56·37	*S*	50·06
30	44·07		44·40	47·07	52·16	57·50	60·61	*S*	60·00	56·30	52·15	49·94
31	44·00		44·60		*S*		60·58	62·17		56·21		49·80
Means.	45·08	43·15	44·14	46·14	49·00	54·82	58·95	61·27	60·04	57·36	54·42	50·76

(IV.)- Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°								°			°
1	41·32	*S*	*S*	44·10	45·71	56·32	62·63	64·77	63·10	59·85	*S*	47·03
2	41·88	39·00	42·02	44·43	46·00	56·58	62·20	*S*	64·87	59·63	53·27	47·08
3	42·37	38·67	42·40	44·82	*S*	56·71	61·82	65·35	64·42	59·43	53·30	47·40
4	*S*	38·55	42·63	45·15	46·43	56·02	61·53	65·52	63·62	*S*	53·57	47·80
5	42·63	38·37	42·83	*S*	46·60	57·32	*S*	65·64	63·03	59·16	53·90	48·00
6	42·42	38·30	42·78	46·07	46·68	57·95	61·20	65·84	*S*	58·67	54·07	*S*
7	41·94	38·15	42·87	46·02	46·87	*S*	60·71	65·44	62·50	Fast Day.	54·11	47·70
8	41·40	*S*	*S*	47·05	47·05	57·93	60·57	64·94	62·30	57·52	*S*	48·08
9	41·27	38·95	42·90	47·32	47·33	58·01	60·18	*S*	62·32	57·08	53·87	48·00
10	41·18	39·41	42·40	Good Friday.	*S*	58·22	60·00	64·05	62·21	56·72	53·73	47·89
11	*S*	39·82	41·95	47·56	48·16	57·98	60·20	63·71	61·90	*S*	53·50	47·70
12	42·10	40·10	41·78	*S*	48·68	57·80	*S*	63·82	61·79	56·30	53·18	47·44
13	42·03	40·31	41·50	47·08	49·34	57·71	61·13	64·13	*S*	56·44	52·36	*S*
14	41·83	40·13	41·50	46·30	50·08	*S*	61·94	64·14	60·89	56·70	51·90	47·10
15	41·40	*S*	*S*	46·27	50·90	58·00	62·82	64·20	61·39	56·60	*S*	46·90
16	41·04	40·13	42·19	46·00	51·70	58·31	63·33	*S*	60·80	56·52	51·12	46·92
17	41·00	40·20	42·38	45·70	*S*	58·70	63·72	63·64	60·71	57·54	50·81	47·00
18	*S*	40·35	42·60	45·87	53·40	59·12	63·78	63·75	60·60	*S*	50·50	47·39
19	41·20	40·83	42·93	*S*	53·92	59·70	*S*	63·70	60·55	56·40	50·10	47·60
20	41·73	41·16	43·17	47·13	54·54	60·22	64·10	63·94	*S*	56·31	49·87	*S*
21	41·68	41·50	44·02		55·84	*S*	64·37	64·18	61·39	56·13	49·61	47·00
22	41·50	*S*	*S*	47·58	55·12	60·42	64·43	64·33	60·92	56·00	*S*	46·83
23	41·17	41·85	43·40	47·66	55·10	60·60	64·58	*S*	60·81	54·00	49·57	47·12
24	41·12	42·02	42·97	47·47	*S*	60·76	64·73	65·30	60·80	54·15	49·60	47·41
25	*S*	42·04	42·65	47·03	55·21	61·00	64·88	65·76	60·69	*S*	49·30	Christ. Day.
26	40·88	41·92	42·68	*S*	55·10	61·30	*S*	66·04	60·80	54·61	48·75	47·65
27	40·77	41·81	42·61	46·28	55·24	61·64		65·04	*S*	54·55	48·43	*S*
28	40·50	41·68	42·72	45·90	55·60	*S*	64·76	65·77	60·54	54·56	48·82	46·82
29	40·33		*S*	45·20	55·65	62·40	64·72	65·47	60·53	54·49	*S*	46·20
30	39·78		43·25	45·62	56·01	62·61	64·48	*S*	60·12	54·30	47·28	45·86
31	39·50		43·62		*S*		64·52	65·29		54·00		45·60
Means.	41·33	40·22	42·67	46·23	51·19	59·16	62·82	64·76	61·76	56·45	51·46	47·21

Some of the fluid, to the extent of 5°, was removed from this thermometer on June 22 by Mr. Negretti. A corresponding alteration was made in the position of the graduated scale.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of 1 inch below the surface of the soil, within the case which covers the tops of the deep-sunk Thermometers, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·3	S	S	48·8	48·2	61·2	64·6	69·7	67·2	60·2	S	45·2
2	45·6	34·6	45·6	49·7	49·0	63·0	62·0	S	63·0	59·4	53·9	50·0
3	46·1	33·3	44·9	50·5	S	62·0	63·2	71·5	58·8	60·8	57·0	50·0
4	S	35·0	44·8	49·7	48·2	65·1	63·2	73·9	61·3	S	55·5	50·0
5	38·3	33·0	39·8	S	48·7	68·6	S	68·7	61·7	55·0	56·6	46·5
6	37·0	39·0	45·6	53·2	49·8	72·0	63·5	67·8	S	54·3	53·7	S
7	36·2	40·8	44·9	51·8	49·4	S	59·8	64·9	63·8	Fast Day.	53·5	51·0
8	36·4	S	S	52·0	50·8	63·1	59·0	62·6	64·4	54·2	S	46·0
9	42·4	41·2	40·0	50·8	53·2	61·1	60·8	S	62·1	53·0	53·0	46·1
10	45·5	43·3	38·5	Good Friday	S	59·6	63·7	64·0	63·8	53·7	53·1	47·7
11	S	43·7	38·1	48·0	56·1	60·0	65·2	68·4	60·2	S	50·3	46·0
12	40·0	40·3	39·0	S	57·1	60·0	S	67·6	61·0	59·0	44·8	44·3
13	38·0	39·0	40·8	43·2	60·4	60·2	69·0	68·5	S	59·0	44·0	S
14	36·7	39·3	45·6	44·0	60·4	S	70·9	67·2	62·0	56·0	48·5	40·7
15	37·3	S	S	44·9	62·9	62·2	72·3	63·3	63·9	56·2	S	47·0
16	38·0	43·4	44·7	45·3	64·4	63·5	70·0	S	66·0	56·2	48·0	48·3
17	38·0	43·0	44·9	47·7	S	65·8	66·9	65·0	65·9	58·0	46·7	50·2
18	S	44·8	49·5	53·1	64·3	65·1	69·1	64·2	64·7	S	47·7	51·1
19	45·2	44·0	49·4	S	64·0	66·5	S	66·0	61·9	56·2	45·4	45·3
20	41·9	43·7	49·0	53·9	62·6	69·6	71·5	67·1	S	55·4	47·6	S
21	37·0	43·7	41·6		61·7	S	69·7	67·0	58·1	56·0	47·0	47·6
22	38·3	S	S	51·0	59·7	63·0	68·3	70·0	61·1	50·0	S	49·0
23	40·2	43·3	39·1	46·5	57·7	68·0	71·2	S	66·9	50·8	50·0	51·0
24	39·0	43·5	41·8	45·8	S	69·0	72·5	74·0	62·8	54·4	46·8	49·0
25	S	38·8	43·0	46·9	62·8	69·0	69·7	72·7	64·0	S	43·0	Christ. Day
26	37·3	40·1	41·9	S	60·0	69·4	S	69·0	60·7	54·2	42·2	44·2
27	37·0	41·3	43·2	43·4	60·8	70·4	68·9	69·2	S	54·5	45·6	S
28	33·2	45·0	45·4	44·3	63·7	S	67·0	67·0	61·2	54·0	42·6	40·9
29	33·0		S	46·7	60·5	68·8	67·0	66·7	58·7	53·3	S	43·3
30	32·0		48·5	47·0	61·6	65·4	67·9	S	59·5	53·0	44·2	41·9
31	35·7		47·8		S		70·9	69·2		50·0		40·5
Means.	38·9	40·7	43·7	48·3	57·6	65·6	67·0	67·9	62·5	55·2	48·8	46·6

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with their scales, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	50·0	S	S	54·1	53·6	66·7	67·7	73·3	69·3	66·1	S	50·2
2	45·4	36·0	47·6	54·0	55·0	69·9	63·7	S	58·9	65·5	57·8	54·7
3	47·8	31·0	46·1	54·9	S	66·5	68·8	82·0	57·9	63·3	61·3	53·4
4	S	36·0	47·0	53·2	52·6	74·0	67·0	84·5	64·3	S	57·4	52·0
5	34·2	34·0	41·8	S	53·0	80·0	S	68·2	68·0	58·8	58·6	50·3
6	35·0	44·0	49·8	56·6	56·3	83·5	67·9	70·7	S	58·3	55·0	S
7	33·5	43·2	50·8	55·0	54·7	S	60·8	64·9	70·0	Fast Day.	52·0	52·7
8	34·0	S	S	57·0	57·7	66·6	61·0	60·4	65·7	53·5	S	43·0
9	45·0	46·7	41·7	54·9	54·0	65·6	68·0	S	63·7	52·0	53·0	44·7
10	47·6	47·4	41·0	Good Friday.	S	63·0	72·1	71·0	70·9	58·9	51·9	49·2
11	S	49·9	38·1	43·0	64·7	63·3	74·0	74·3	57·7	S	51·0	47·0
12	40·0	43·8	42·8	S	63·9	65·9	S	75·8	66·7	64·9	41·7	42·7
13	35·2	41·8	43·3	40·7	68·9	67·0	80·8	76·0	S	64·8	39·0	S
14	36·1	43·0	51·8	46·7	69·4	S	81·7	67·3	64·2	63·1	53·0	41·5
15	38·8	S	S	48·1	75·1	67·0	84·8	66·7	70·0	57·5	S	50·0

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers—*concluded.*

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
16	39·8	49·3	51·7	48·6	76·0	67·0	76·0	*S*	74·0	58·7	48·5	51·1
17	36·0	50·0	51·8	53·8	*S*	72·0	72·0	70·0	77·0	61·9	46·5	54·0
18	*S*	52·4	62·0	65·9	74·7	72·0	80·0	70·8	72·2	*S*	53·0	50·2
19	46·0	46·0	53·3	*S*	70·8	80·8	*S*	69·8	64·6	59·4	43·6	43·7
20	42·0	47·5	50·0	63·8	69·3	79·2	81·0	69·2	*S*	58·2	47·0	*S*
21	35·7	47·9	41·8		61·6	*S*	75·4	74·9	67·8	55·0	48·8	51·2
22	37·8	*S*	*S*	51·2	59·5	66·5	71·9	79·5	65·0	54·8	*S*	52·0
23	41·8	52·2	39·1	44·8	62·1	76·0	81·6	*S*	68·0	51·1	50·3	53·9
24	38·7	47·8	47·9	46·1	*S*	81·7	81·4	84·4	71·6	59·2	43·3	50·8
25	*S*	38·8	44·2	47·3	70·0	82·9	70·0	80·0	66·3	*S*	42·6	Christ. Day.
26	35·8	44·7	45·7	*S*	64·9	83·3	*S*	76·0	65·9	61·0	38·0	47·2
27	35·0	44·4	44·3	43·8	67·2	85·7	72·6	78·2	*S*	57·0	46·5	*S*
28	32·1	52·8	52·2	45·1	72·0	*S*	67·6	72·0	61·0	58·6	44·4	37·8
29	31·0		*S*	53·0	64·1	73·6	75·9	70·4	67·2	56·8	*S*	46·0
30	30·7		54·1	50·1	66·3	68·0	76·9	*S*	66·3	54·4	42·1	39·8
31	35·0		50·8		*S*		78·7	81·7		56·1		38·0
Means.	38·6	44·6	47·3	51·3	63·7	72·6	73·3	73·5	66·7	58·4	49·1	48·0

WEEKLY MEANS of READINGS of DEEP-SUNK THERMOMETERS.

1857. Period.				Thermometers sunk in the ground. Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	Thermometer inclosed in the box which covers the scales of the deep-sunk Thermometers, and placed on a level with their scales.
	d		d	°	°	°	°	°	°
January	1	to	7	51·34	49·47	46·00	42·09	41·6	41·0
	8	to	14	51·19	48·85	45·37	41·64	39·8	39·7
	15	to	21	51·02	48·33	44·93	41·34	39·6	40·2
	22	to	28	50·84	47·86	44·51	40·99	37·5	36·9
	29	to	February 4	50·64	47·41	43·86	39·31	33·9	33·3
February	5	to	11	50·46	46·94	42·99	38·83	40·2	44·2
	12	to	18	50·26	46·45	42·76	40·20	41·6	46·6
	19	to	25	50·06	46·02	43·23	41·57	42·8	46·7
	26	to	March 4	49·84	45·79	43·67	42·07	43·6	47·1
March	5	to	11	49·61	45·69	44·05	42·62	41·2	43·9
	12	to	18	49·40	45·65	44·01	41·99	44·1	50·6
	19	to	26	49·20	45·55	44·31	43·29	44·0	46·1
	26	to	April 1	49·03	45·53	44·49	43·16	45·9	50·2
April	2	to	8	48·88	45·55	45·01	45·39	51·2	55·1
	9	to	15	48·69	45·64	46·23	46·91	46·2	46·7
	16	to	22	48·60	45·90	46·44	46·46	50·2	56·7
	23	to	29	48·43	46·13	47·01	46·59	45·6	46·7
	30	to	May 6	48·30	46·37	47·00	46·17	48·5	53·4
May	7	to	13	48·28	46·53	47·41	47·91	54·5	60·7
	14	to	20	48·24	46·77	49·86	52·42	63·1	72·6
	21	to	27	48·18	47·19	50·93	55·24	60·5	64·2
	28	to	June 3	48·17	47·89	52·31	56·15	62·0	67·6
June	4	to	10	48·20	48·52	53·60	57·83	64·9	72·1
	11	to	17	48·20	48·38	54·57	58·08	62·0	67·0
	18	to	24	48·25	50·08	55·59	60·14	67·4	76·0
	25	to	July 1	48·35	50·68	57·10	61·93	67·9	77·3
July	2	to	8	48·45	51·53	58·13	61·33	61·8	64·9
	9	to	15	48·61	52·32	58·16	61·05	67·0	76·9
	16	to	22	48·77	52·85	59·05	63·96	69·3	76·1
	23	to	29	48·98	53·43	60·14	64·61	69·4	74·9
	30	to	August 5	49·18	54·09	60·77	65·05	70·4	77·3
August	6	to	12	49·39	54·62	61·21	64·63	65·9	69·5
	13	to	19	49·62	55·14	61·11	63·93	69·9	70·1
	20	to	26	49·88	55·57	61·34	64·93	70·0	73·3
	27	to	September 2	50·09	55 87	61·94	65·25	66·1	71·8
September	3	to	9	50·35	56·22	61·70	63·04	62·0	64·9
	10	to	16	50·60	56·51	61·00	61·50	62·8	67·3
	17	to	23	50·85	56·60	60·56	60·83	63·1	69·1
	24	to	30	51·10	56·60	60·17	60·58	61·2	66·4
October	1	to	7	51·30	56·63	59·67	59·34	57·9	62·5
	8	to	14	51·51	56·46	58·55	56·70	55·8	69·5
	15	to	21	51·70	56·24	57·66	56·58	56·3	58·5
	22	to	28	51·98	56·01	56·62	54·65	53·0	55·3
	29	to	November 4	52·14	55·69	56·07	54·16	53·8	55·6
November	5	to	11	52·24	55·30	55·47	53·86	53·4	53·6
	12	to	18	52·29	54·93	54·83	51·63	48·3	47·0
	19	to	25	52·24	54·55	53·51	49·68	46·6	45·9
	26	to	December 2	52·36	54·06	52·30	47·9	45·0	46·0
December	3	to	9	52·39	53·53	51·29	47·83	48·3	49·4
	10	to	16	52·38	52·93	50·91	47·32	45·7	46·9
	17	to	23	52·34	52·46	50·43	47·16	49·0	50·8
	24	to	31	52·25	51·93	50·06	46·59	43·3	43·3

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N, &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

1856. Dec. 31. 12. The direction of the wind was W.S.W.
1857. Jan. 31. 12. ,, ,, N.N.W., which implies a direct motion of 90°.
On Jan. 12. 22, the trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of January was 270°.

1857. Jan. 31. 12. The direction of the wind was N.N.W.
Feb. 28. 12. ,, ,, W., which implies a retrograde motion of $67\frac{1}{2}$°.
On Feb. 2. 2, 14d. 22h, 18d. 22h, 19d. 22h, the trace was shifted to the next set of lines upwards; on February 1d. 22h, 15d. 22h, 20d. 4h, 26d. 22h, to the next set of lines downwards; implying retrograde motion of 1440°, and direct motion of 1440°.
Therefore the whole excess of retrograde motion in the month of February was $67\frac{1}{2}$°.

1857. Feb. 28. 12. The direction of the wind was W.
March 31. 12. ,, ,, S.W., which implies a retrograde motion of 45°.
On March 3. 4, 3d. 22h, 10d. 22h, 20d. 22h, 28d. 22h, the trace was shifted to the next set of lines downwards; on March 1d. 0h, 19d. 22h, the trace was shifted to the next set of lines upwards; implying direct motion of 1800°, and retrograde motion of 720.°
Therefore the whole excess of direct motion in the month of March was 1035°.

1857. March 31. 12. The direction of the wind was S.W.
April 30. 12. ,, ,, N., which implies a direct motion of 135°.
On April 10. 22, the trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of April was 495°.

1857. April 30. 12. The direction of the wind was N.
May 31. 12. ,, ,, N.E., which implies retrograde motion of 315°.
On May 1. 22, 11d. 22h, the trace was shifted to the next set of lines downwards; and on May 15d. 22h, to the second set downwards; implying direct motion of 1440°.
Therefore the whole excess of direct motion in the month of May was 1125°.

1857. May 31. 12. The direction of the wind was N.E.
June 30. 12. ,, ,, S.W., which implies a direct motion of 180°.
On June 13. 3. 26d. 22h, the trace was shifted to the next set of lines downwards; and on June 20d. 22h, 27d. 3h, to the second set downwards; on June 16d. 3h, 26d. 3h, 27d. 22h, the trace was shifted to the next set of lines upwards; implying direct motion of 2160°, and retrograde motion of 1080°.
Therefore the whole excess of direct motion in the month of June was 1260°.

1857. June 30. 12. The direction of the wind was S.W.
July 31. 12. ,, ,, S.W., which implies no change.
On July 2. 22, 14d. 3h, 29d. 3h, the trace was shifted to the next set of lines downwards; and on July 18d. 22h, the trace was shifted to the next set of lines upwards; implying direct motion of 1080°, and retrograde motion of 360°.
Therefore the whole excess of direct motion in the month of July was 720°.

1857. July $^{d}31.\ ^{h}12.$ The direction of the wind was S.W.
Aug. 31. 12. ,, ,, S.W., which implies no change.
On Aug. 15. 22, the trace was shifted to the second set of lines downward, and on $22^{d}.\,22^{h}$ to the next set downwards; on August $5^{d}.\,22^{h}$, $13^{d}.\,22^{h}$, $23^{d}.\,22^{h}$, the trace was shifted to the second set of lines upwards; implying direct motion of 1080°, and retrograde motion of 1080°.
Therefore in the month of August there was on the whole no change.

1857. Aug. $^{d}31.\ ^{h}12.$ The direction of the wind was S.W.
Sept. 30. 12. ,, ,, S.E., which implies apparent retrograde motion of 90°.
On Sept. 23. 22, the trace was shifted to the next set of lines downwards, implying direct motion of 360°.
Therefore the whole excess of direct motion in the month of September was 270°.

1857. Sept. $^{d}30.\ ^{h}12.$ The direction of the wind was S.E.
Oct. 31. 12. ,, ,, S., which implies apparent direct motion of 45°.
On Oct. 17. 3, $25^{d}.\,22^{h}$, the trace was shifted to the next set of lines downwards; on October $15^{d}.\,22^{h}$, $19^{d}.\,22^{h}$, the trace was shifted to the next set of lines upwards; implying direct motion of 720°, and retrograde motion of 720°.
Therefore the whole excess of direct motion in the month of October was 45°.

1857. Oct. $^{d}31.\ ^{h}12.$ The direction of the wind was S.
Nov. 30. 12. ,, ,, S.S.E., which implies apparent retrograde motion of $22\frac{1}{2}°$.
On Nov. 19. 22, $29^{d}.\,22^{h}$, the trace was shifted to the next set of lines downwards, implying direct motion of 720°.
Therefore the whole excess of direct motion in the month of November was $697\frac{1}{2}°$.

1857. Nov. $^{d}30.\ ^{h}12.$ The direction of the wind was S.S.E.
Dec. 31. 12. ,, ,, S.E., which implies apparent retrograde motion of $22\frac{1}{2}°$.
Therefore the whole excess of retrograde motion in the month of December was $22\frac{1}{2}°$.

The whole excess of direct motion to the end of the year was $5287\frac{1}{2}°$. $= 14^{\frac{1}{2}}\cdot 7$

On July 7 a revolution-counter was attached to the vertical spindle of the vane, consisting of wheel-work and a graduated circle divided into a hundred equal parts, whose reading increases with change of direction of the wind in the order N., E., S., W., &c., or in direct motion, and decreases with its change in the order N., W., S., E., &c., or in retrograde motion.

			rev.
On July	$^{d}7.\ ^{h}0$	its reading was	0·00
July	31. 22	,, ...	0·90
Aug.	31. 22	,, ...	1·00
Sept.	30. 22	,, ...	1·50
Oct.	31. 22	,, ...	1·50
Nov.	30. 22	,, ...	3·20
Dec.	31. 22	,, ...	3·85

Between July 7^{d} and Dec. $31^{d}.\,12^{h}$, the rack-work had been shifted 10 times implying direct motion, and 6 times implying retrograde motion.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1857.

1857, MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January	1·4	2·2	2·3	2·6
February	0·1	0·1	0·2	0·2
March	0·3	0·8	0·9	1·0
April	0·7	1·2	1·4	1·4
May	0·3	0·6	0·6	0·6
June	1·6	2·0	2·1	2·1
July	0·9	1·1	1·3	1·3
August	2·1	2·7	2·7	2·7
September	2·7	3·7	2·6	3·9
October	2·7	3·7	3·6	3·9
November	0·9	1·3	1·3	1·3
December	0·3	0·4	0·4	0·4
Sums	14·0	19·8	19·4	21·4

The heights of the receiving surfaces are as follows:

	Above the Level of the Sea.			Above the Ground.	
	Ft.	In.		Ft.	In.
Osler's Anemometer Gauge	205	6	.....	50	8
Gauge on the Roof of the Library	177	2	.....	22	4
Crosley's Gauge	156	6	.....	1	8
Cylinder Gauge	155	3	.....	0	5